



June 6, 2017

Mr. Brian Jankauskas
New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation, Remedial Bureau A
625 Broadway, 11th Floor
Albany, NY 12233-7015

REFERENCE: National Guard Bureau Contract Number W9133L-14-D-0007, Task Order 0004, Eastern Region Installation Restoration Program Activities at Multiple Air National Guard Installations, Project #ANG2015EASTIRP

SUBJECT: Final First Semiannual Monitoring Report for Installation Restoration Program Site 6 (Suspected Spill Area), 109th Airlift Wing, Stratton Air National Guard Base (SANGB), Scotia, New York, dated June 2017

Dear Mr. Jankauskas,

The above-referenced document will be submitted on a compact disc (CD) for your records per Task 9.4 of Task Order 0004.

Leidos was contracted by the Air National Guard (ANG) to perform remedial action at Installation Restoration Program Site 6 at Stratton ANG Base. This document serves as the First Semiannual Monitoring Report documenting results from the October 2016 and January 2017 monitoring events following the July 2016 biostimulation and bioaugmentation injections to treat groundwater.

Should you have any questions, please do not hesitate to contact me at 865-481-8749 or by email at poligonem@leidos.com. Thank you.

Sincerely,

LEIDOS

A handwritten signature in black ink, appearing to read "M. Poligone", with a stylized flourish at the end.

Michael Poligone
Project Manager

Copy with attachment to:

Jody Ann Murata, NGB COR (2 CDs plus 1 CD w/native files)
NGB/A4OR
Shepperd Hall
3501 Fetchet Avenue
Joint Base Andrews, MD 20762-5157
Jody.murata@ang.af.mil

Jennifer Kotch (2 hard copies with CD)
Environmental Specialist
Stratton Air National Guard Base
1 Air National Guard Road
Scotia, NY 12302
jennifer.r.kotch.civ@mail.mil

Steve Karpinski (1 CD)
Public Health Specialist II
New York State Department of Health
Bureau of Environmental Exposure Investigation
Empire State Plaza, Corning Tower, Room 1787
Albany, NY 12237

Cindy Lang (1 CD)
BB&E
235 East Main Street, Suite 107
Northville, MI 48167
clang@bbande.com

FINAL

**FIRST SEMIANNUAL MONITORING REPORT
FOR
INSTALLATION RESTORATION PROGRAM
SITE 6 (SUSPECTED SPILL AREA)**



**109th Airlift Wing
New York Air National Guard
Stratton Air National Guard Base
Scotia, New York**

June 2017

THIS PAGE WAS INTENTIONALLY LEFT BLANK.

FINAL

**FIRST SEMIANNUAL MONITORING REPORT
FOR
INSTALLATION RESTORATION PROGRAM
SITE 6 (SUSPECTED SPILL AREA)**

**109th Airlift Wing
New York Air National Guard
Stratton Air National Guard Base
Scotia, New York**

June 2017

Contract Number W9133L-14-D-0007
Task Order Number 0004

Prepared for
NGB/A4OR
3501 Fetchet Avenue
Joint Base Andrews, Maryland 20762

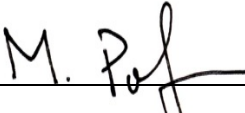
Prepared by
Leidos
301 Laboratory Road
Oak Ridge, Tennessee 37831

THIS PAGE WAS INTENTIONALLY LEFT BLANK.

First Semiannual Monitoring Report Certification

I, Michael Poligone, certify that I am currently a New York State-registered professional engineer, as defined in 6 New York Codes, Rules, and Regulations Part 375, and that this First Semiannual Monitoring Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10).

Signature:



Name (print):

Michael Poligone

**New York State
Professional Engineer
License Number:**

096083

Date:

06/05/17

THIS PAGE WAS INTENTIONALLY LEFT BLANK.

CONTENTS

TABLES	vii
FIGURES	vii
ACRONYMS	ix
 1.0 INTRODUCTION.....	 1-1
1.1 PROJECT PURPOSE AND SCOPE.....	1-1
1.2 SITE DESCRIPTION AND BACKGROUND.....	1-2
1.3 REMEDIAL ACTION OBJECTIVES.....	1-2
1.4 GROUNDWATER REMEDIAL ACTION OBJECTIVES.....	1-2
1.5 GENERAL REMEDIAL APPROACH UNDER THIS TASK ORDER.....	1-4
1.6 PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIVITIES	1-4
1.7 PREVIOUS REMEDIAL ACTIVITIES PERFORMED UNDER THIS TASK ORDER	1-4
1.7.1 Baseline Monitoring Event	1-4
1.7.2 July 2016 Bioremediation Injections	1-6
 2.0 CURRENT FIELD ACTIVITIES	 2-1
2.1 GROUNDWATER SAMPLING METHODS AND PROCEDURES	2-1
2.2 DEVIATIONS FROM THE WORK PLAN	2-1
2.3 REMEDIATION-DERIVED WASTE.....	2-2
 3.0 GROUNDWATER SAMPLING RESULTS	 3-1
3.1 WATER LEVEL MEASUREMENTS.....	3-1
3.2 SAMPLING RESULTS	3-1
3.2.1 Second Monitoring Event	3-1
3.2.2 Third Monitoring Event	3-7
3.3 DISCUSSION	3-8
 4.0 CONCLUSIONS.....	 4-1
 5.0 REFERENCES.....	 5-1
 APPENDIX A – PURGE LOGS	 A-1
 APPENDIX B – ANALYTICAL LABORATORY DATA PACKAGES PERFORMANCE MONITORING – OCTOBER 2016 AND JANUARY 2017 (FOR HARD COPY VERSIONS OF THIS REPORT, ALL OF APPENDIX B IS INCLUDED ON THE COMPLETE DOCUMENT COMPACT DISC).....	 B-1

THIS PAGE WAS INTENTIONALLY LEFT BLANK.

TABLES

1-1	Remedial Levels for Site 6 Groundwater COCs	1-2
2-1	Construction Details for Monitoring Wells.....	2-1
3-1	Water Level Measurements.....	3-1
3-2	August 2008 through January 2017 Monitoring Results.....	3-2
3-3	Performance Summary for SANGB Site 6	3-8

FIGURES

1-1	Site Features, Injection Wells, and Monitoring Locations for Site 6 Remedial Action.....	1-3
1-2	Groundwater Concentrations at Site 6, 2008 to January 2017	1-5

THIS PAGE WAS INTENTIONALLY LEFT BLANK.

ACRONYMS

AGWQS	Ambient Groundwater Quality Standards
AMSL	above mean sea level
ANG	Air National Guard
AW	Airlift Wing
COC	chemical of concern
DCE	dichloroethene
DHC	<i>Dehalococcoides</i> sp.
DO	dissolved oxygen
EVO	emulsified vegetable oil
mS	milliSiemens
NFA	no further action
NTU	nephelometric turbidity unit
NYANG	New York Air National Guard
NYSDEC	New York State Department of Environmental Conservation
ORP	oxidation-reduction potential
PCE	tetrachloroethene
RA	remedial action
RAO	remedial action objective
RA-O	remedial action-operation
RAWP	Remedial Action Work Plan
ROD	Record of Decision
S.U.	standard unit
SANGB	Stratton Air National Guard Base
SCA	Schenectady County Airport
SCO	site closeout
TCE	trichloroethene
TOC	total organic carbon
VC	vinyl chloride
VOC	volatile organic compound

THIS PAGE WAS INTENTIONALLY LEFT BLANK.

1.0 INTRODUCTION

Leidos was contracted by the Air National Guard (ANG) to perform remedial action-operations (RA-Os), groundwater monitoring, and site closeout (SCO) activities at Installation Restoration Program Site 6 (Suspected Spill Area) at the 109th Airlift Wing (AW), New York Air National Guard (NYANG), Stratton Air National Guard Base (SANGB) in Scotia, New York. This work is being performed under National Guard Bureau Contract Number W9133L-14-D-0007, Task Order Number 0004 in accordance with the selected remedy for Site 6 groundwater, as dictated by the approved *Record of Decision for Sites 3 and 6 for the 109th Airlift Wing, Schenectady Air National Guard Base, Scotia, New York* (ANG 2012).

Groundwater monitoring is being conducted to evaluate the effects of a bioremediation (e.g., biostimulation and/or bioaugmentation) injection event conducted from July 25 through 29, 2016. The first, or baseline, monitoring event was conducted in May 2016, and sampling results and bioremediation injection activities are presented in the *Remedial Action Completion Report for Installation Restoration Program Site 6 (Suspected Spill Area), 109th Airlift Wing, Stratton Air National Guard Base (SANGB), Scotia, New York* (Leidos 2017).

This report summarizes the results of the second and third groundwater monitoring events conducted October 11, 2016, and January 9, 2017, respectively, to measure the performance of bioremediation injection activities. Plans for remedial actions (RAs) and subsequent monitoring activities at Site 6 were established in the approved *Work Plan for Remedial Action-Operations, Monitoring, and Project Closeout at IRP Site 6 (Suspected Spill Area)*, herein referred to as the Remedial Action Work Plan (RAWP) (Leidos 2016).

1.1 PROJECT PURPOSE AND SCOPE

The overall purpose of the RA-O and groundwater monitoring activities at Site 6 is to achieve SCO within the 56-month period of performance. The specific scope for Site 6 is to optimize in-situ enhanced reductive dechlorination through biostimulation and bioaugmentation to biologically degrade low levels of chlorinated volatile organic compounds (VOCs) to below New York State Department of Environmental Conservation (NYSDEC) groundwater standards to achieve site closure. Quarterly and semiannual monitoring events will be conducted to evaluate the progress of reductive dechlorination via bioremediation and to determine the progress of the biological degradation of residual contamination left after active treatment.

No further action (NFA) will be recommended for all Site 6 wells comprehensively after all wells are below NYSDEC groundwater standards for four consecutive events. Once NFA has been approved for all Site 6 wells, SCO field activities will be conducted.

Targeted bioremediation injections to treat chlorinated VOCs may be conducted at select wells if exceedances above NYSDEC groundwater standards remain present after multiple monitoring events. If targeted injections are necessary, details will be provided to ANG and NYSDEC for review and approval in an addendum to the current RAWP (Leidos 2016) prior to injection activities.

1.2 SITE DESCRIPTION AND BACKGROUND

The 109th AW of NYANG is located at SANGB in the southeast portion of Schenectady County Airport (SCA) in Scotia, New York (inset, Figure 1-1). The federal government leases the land from the SCA and licenses the land back to NYANG. The Base is comprised of approximately 126 acres, designated for exclusive use by NYANG. Land to the north, east, and west of the Base is agricultural and residential.

The Mohawk River lies to the south of the Base, along with a railway and commercial and residential properties.

Site 6 (Suspected Spill Area), located near the southern corner of the Base, covers an area of approximately 0.96 acre and is bounded by the drainage ditch to the southwest and to the north by monitoring well 6MW-21 (Figure 1-1). Soil and groundwater have been impacted at this site by past releases from aircraft fueling, maintenance, operation activities, and training exercises. Cleanup of contaminated areas has taken place over the last decade to prevent further environmental impacts.

1.3 REMEDIAL ACTION OBJECTIVES

The RA presented in the RAWP (Leidos 2016) was intended to increase remedial efficiencies and close the site in the most expedient and efficient way possible, and to protect public health, welfare, or the environment from actual or threatened releases of pollutants or contaminants from this site, which may present an imminent and substantial endangerment to public health or welfare. Remedial action objectives (RAOs) provide a general description of what the cleanup will accomplish. RAOs identified for Site 6 groundwater were developed in the Record of Decision (ROD) (ANG 2012) and include the following:

- Prevent contact with, or inhalation of, VOCs from contaminated groundwater.
- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Restore the groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Prevent impacts to biota from ingestion/direct contact.

Groundwater is the only medium of concern requiring RA at Site 6. ANG requested NFA for site soil in March 2015 (ANG 2015), which was approved by NYSDEC in April 2015 (NYSDEC 2015).

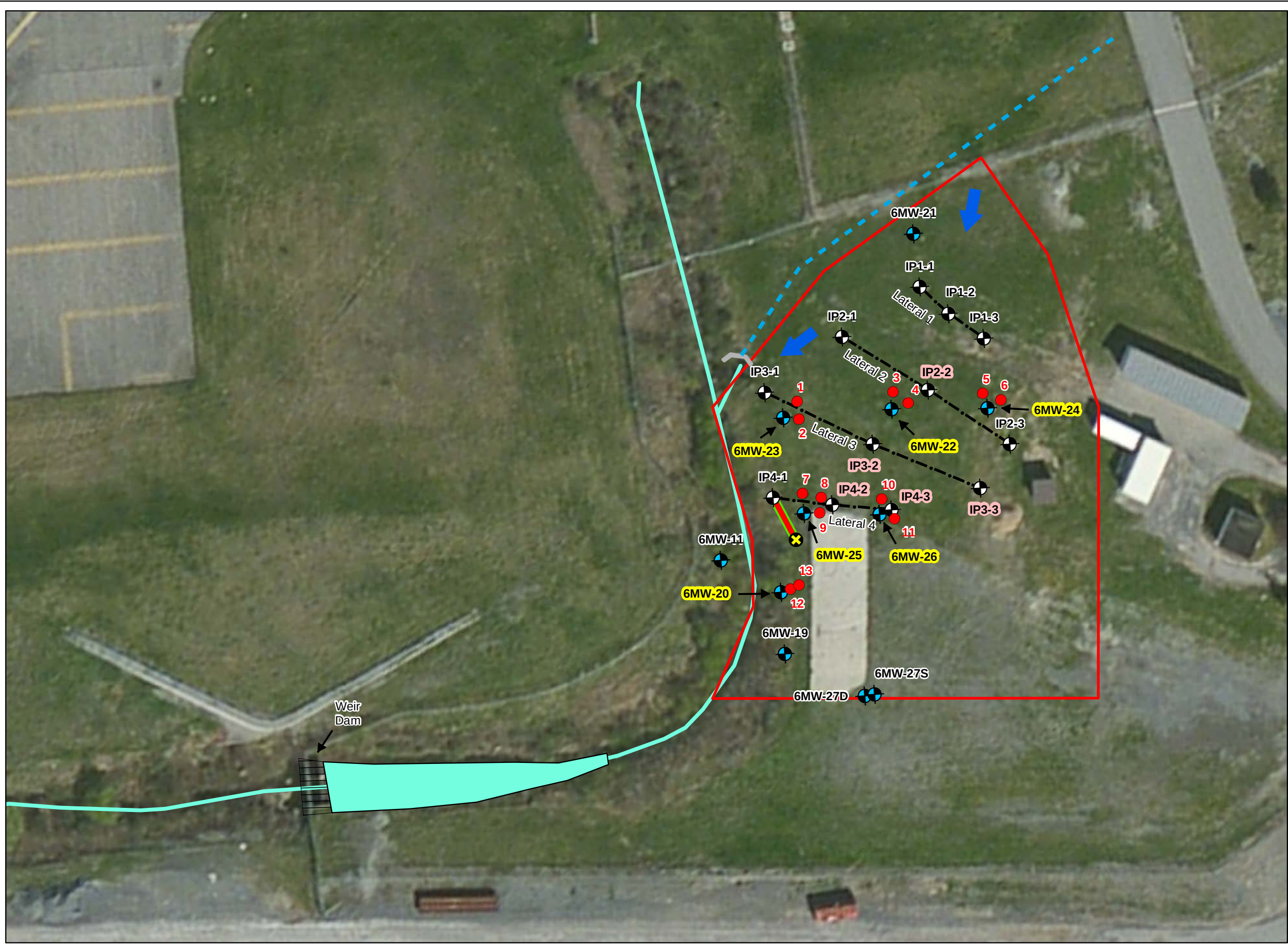
1.4 GROUNDWATER REMEDIAL ACTION OBJECTIVES

The ROD for Sites 3 and 6 identified site-related chemicals of concern (COCs) in soil and groundwater that pose a potential risk to human health and the environment (ANG 2012). Tetrachloroethene (PCE); trichloroethene (TCE); cis-1,2-dichloroethene (DCE); and vinyl chloride (VC) were identified as primary groundwater COCs, with concentrations exceeding established NYSDEC Class GA Ambient Groundwater Quality Standards (AGWQS) (NYSDEC 1998). Remedial levels for groundwater are NYSDEC Class GA AGWQS. Table 1-1 lists the remedial levels for Site 6.

Table 1-1. Remedial Levels for Site 6 Groundwater COCs

COC	Remedial Level (µg/L)
Tetrachloroethene	5
Trichloroethene	5
cis-1,2-Dichloroethene	5
Vinyl Chloride	2

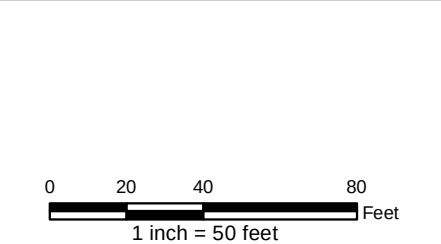
COC = Chemical of concern.



LEGEND

- Injection Well
- Monitoring Well
- Infusion Point
- Collection Sump
- Interceptor Trench
- Horizontal Infusion Well
- - - Approximate Location of Stormwater Drain
- Drainage Ditch
- Stormwater Outfall
- Site 6 Boundary
- General Groundwater Flow Direction
- 6MW-24 Performance Monitoring Well
- IP2-2 2016 Infusion Injection Location

NOTES



Data Sources:
Background: ESRI World Imagery
(USDA NAIP, May 2015)



SITE FEATURES, INJECTION WELLS
AND MONITORING LOCATIONS FOR
SITE 6 REMEDIAL ACTION

NEW YORK AIR NATIONAL GUARD
109TH AIRLIFT WING
SCOTIA, NEW YORK

FIGURE: 1-1 | DATE: 2/17/2017

1.5 GENERAL REMEDIAL APPROACH UNDER THIS TASK ORDER

Field activities are detailed in the RAWP (Leidos 2016) and included the following:

- Conduct a baseline groundwater monitoring event to establish current contaminant conditions.
- Install permanent injection wells and an interceptor trench, and conduct a pilot study.
- Perform bioremediation injections to treat groundwater.

Following the completion of the bioremediation injections documented herein, the following activities will be conducted and reported in periodic groundwater monitoring reports and a final SCO Report:

- Conduct groundwater performance monitoring and closure monitoring events.
- Conduct targeted bioremediation injections to treat groundwater if exceedances above NYSDEC groundwater standards are present after multiple sampling events.
- Perform project closeout by abandoning vertical infusion points, horizontal infusion wells, injection wells, and site monitoring wells.

1.6 PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIVITIES

Previous investigations and remedial activities at Site 6 prior to this task order are presented in the Remedial Action Completion Report (Leidos 2017).

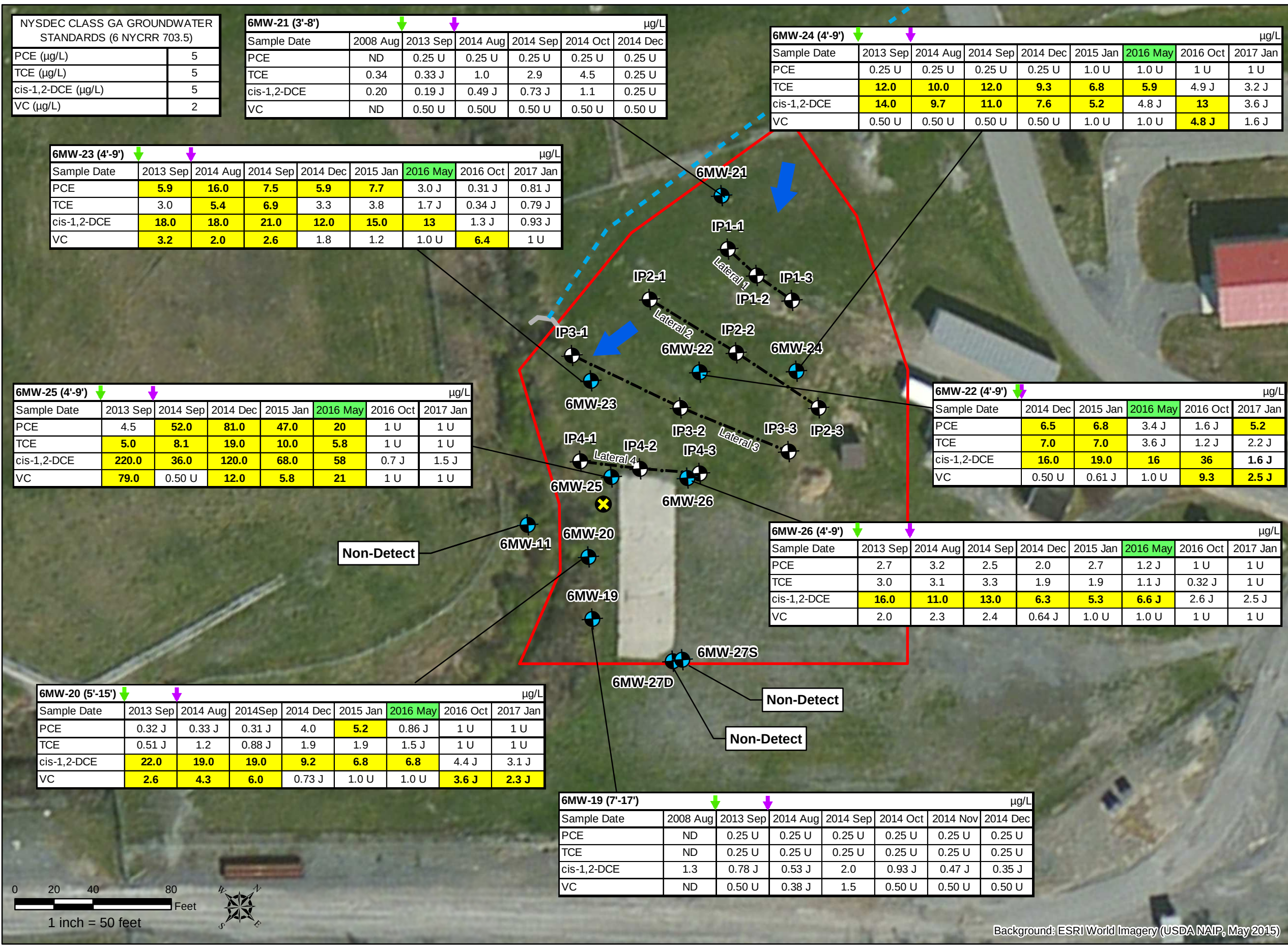
1.7 PREVIOUS REMEDIAL ACTIVITIES PERFORMED UNDER THIS TASK ORDER

RA activities conducted under the RAWP (Leidos 2016) to date have consisted of a baseline monitoring event conducted in May 2016 and a bioremediation injection event conducted in July 2016. Details of the baseline monitoring event and bioremediation injection activities were presented in the Remedial Action Completion Report (Leidos 2017). Figure 1-2 provides past and current sampling results for the six monitoring wells identified in the RAWP (Leidos 2016). Sampling results for the current monitoring events are discussed in Chapter 4.0.

1.7.1 Baseline Monitoring Event

A baseline monitoring event was conducted May 11 through 13, 2016, prior to remedial activities. The purpose was to provide current subsurface conditions and verify amendment quantities based on current contaminant concentrations and distribution.

Samples were analyzed for VOCs, total organic carbon (TOC), sulfate, nitrate, and field parameters from six wells (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26). PCE; TCE; cis-1,2-DCE; and VC concentrations are shown on Figure 1-2. Additionally, one sample was collected from well 6MW-25 and analyzed for *Dehalococcoides* sp. (DHC). Results indicated that PCE; TCE; cis-1,2-DCE; and VC remained above their respective NYSDEC groundwater standards in one or more monitoring wells. The maximum detected contaminant concentrations included 20 µg/L of PCE; 58 µg/L of cis-1,2-DCE; and 21 µg/L of VC in 6MW-25 and 5.9 µg/L of TCE in 6MW-24. The results of the geochemical analysis during the baseline monitoring indicated generally aerobic conditions based upon dissolved oxygen (DO) concentrations above 1 mg/L and neutral to slightly positive oxidation-reduction potential (ORP) readings in most wells. Nitrate and sulfate were detected at levels considered desirable for anaerobic in-situ bioremediation. Well 6MW-25



GROUNDWATER
CONCENTRATIONS AT SITE 6,
2008 TO JANUARY 2017

NEW YORK AIR NATIONAL GUARD
109TH AIRLIFT WING
SCOTIA, NEW YORK

FIGURE: 1-2 DATE: 3/28/2017

was sampled for DHC and contained 357 cells/mL, considered to be in the moderate range (100 to less than 10,000 cells/mL), with concentrations greater than or equal to 10,000 cells/mL considered ideal (Lu et al. 2006). TOC concentrations were generally an order of magnitude below the minimum level (i.e., 20 mg/L) considered optimum for reductive dechlorination ethenes in all three areas. However, the addition of an electron donor, such as emulsified vegetable oil (EVO), will increase TOC and may stimulate DHC growth and enhance anaerobic bioremediation when DHC concentrations are in the moderate range.

1.7.2 July 2016 Bioremediation Injections

A total of 13 injection wells were installed between June 28 and 30, 2016, in areas where chlorinated groundwater continues to exceed groundwater criteria. The wells were installed surrounding monitoring wells 6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26 (Figure 1-2).

The EVO and DHC injection activities took place from July 25 through 29, 2016. Approximately 40 gal of Terra Systems SRS-FRL Large Droplet EVO biostimulant was combined with potable water and injected using between 600 gal (at injection wells 12 and 13) and 750 gal of potable water per injection well. In addition, approximately 20 gal of EVO and 350 gal of potable water were injected into three of the horizontal infusion laterals. The biostimulation amendment was injected into the 13 new injection wells and 5 infusion gallery access points (IP2-2, IP3-2, IP3-3, IP4-2, and IP4-3; Figure 1-2).

Approximately 2 L of KB-1 Dechlorinator™ bioaugment was injected at the 13 injection wells and 1 L was injected at infusion points to encourage a microbial population greater than 10⁴ (10,000) DHC per mL, which increases the likelihood of complete degradation of the chlorinated solvents. DHC cannot survive in oxygenated environments, and chlorine is a bactericide. Therefore, 20 gal deoxygenated and dechlorinated water was injected immediately before and after the injection of KB-1 Dechlorinator™ for a total of 40 gal per well.

2.0 CURRENT FIELD ACTIVITIES

Field activities during this semiannual monitoring period consisted of two groundwater monitoring events. The second and third groundwater monitoring events since the initiation of Task Order 004 and the RAWP (Leidos 2016) were conducted on October 11, 2016, and January 9, 2017, respectively. Groundwater samples were collected from six monitoring wells (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26).

2.1 GROUNDWATER SAMPLING METHODS AND PROCEDURES

Groundwater samples were collected using low-flow purging techniques. All field equipment was decontaminated prior to initiating sample collection activities at each well. Water levels were obtained immediately prior to starting sampling activities at each well. Water level measurements are presented in Section 3.1. A low-flow pump was positioned at the approximate midpoint of the well screen or water column (see Table 2-1 for screened intervals). Monitoring wells were purged prior to sample collection, and field parameters of specific conductance, DO, ORP, pH, temperature, and turbidity were measured using a flow-through cell to prevent atmospheric contact prior to measurement. Pumping flow rates of 80 to 200 mL/min, depending on the production rate of the well, were maintained during purging and sample collection. Field parameters were recorded in field logbooks and stabilized prior to sample collection. Copies of monitoring well purge logs are included as Appendix A.

Table 2-1. Construction Details for Monitoring Wells

Well Identifier	TOC Elevation (ft AMSL)	Total Depth (ft BTOC)	Screen Interval (ft BGS)	Well Construction Materials	Completion Method
6MW-20	305.44	18	5.0 – 15.0	PVC	Stick-up
6MW-22	309.83	8.72	4.0 – 9.0	PVC	Flushmount
6MW-23	308.37	8.73	4.0 – 9.0	PVC	Flushmount
6MW-24	310.6	8.54	4.0 – 9.0	PVC	Flushmount
6MW-25	306.12	8.68	4.0 – 9.0	PVC	Flushmount
6MW-26	307.05	5.28	4.0 – 9.0	PVC	Flushmount

AMSL = Above mean sea level.

BGS = Below ground surface.

BTOC = Below top of casing.

PVC = Polyvinyl chloride.

TOC = Top of casing.

Samples from the two monitoring events were submitted to TestAmerica Laboratories, Inc., located in Arvada, Colorado, and analyzed for VOCs and TOC. Upon collection, groundwater samples were placed into laboratory-certified-clean sample containers. The sample containers were labeled, maintained in a cooler at an approximate temperature of 4°C, and shipped overnight for analysis. Results of collected groundwater samples are discussed in Chapter 4.0. Copies of complete analytical results are provided in Appendix B.

2.2 DEVIATIONS FROM THE WORK PLAN

There were no deviations noted during the second or third groundwater monitoring events.

2.3 REMEDIATION-DERIVED WASTE

All purge water and decontamination liquids accumulated during field activities were collected in 5-gal containers and subsequently transported to a 55-gal drum and stored in the designated waste accumulation area pending disposal. Approximately 12 gal of liquid waste were generated during the two monitoring events.

3.0 GROUNDWATER SAMPLING RESULTS

The following sections present the results of the second and third groundwater monitoring events conducted in October 2016 and January 2017, respectively. The first event was the baseline groundwater monitoring event conducted in May 2016. Water level measurements, analytical results for key constituents (PCE; TCE; cis-1,2-DCE; VC; and TOC), and field parameters are discussed for these events. Copies of complete analytical results for the groundwater monitoring events are provided in Appendix B.

3.1 WATER LEVEL MEASUREMENTS

Groundwater level measurements collected in October 2016 and January 2017 are presented in Table 3-1.

Table 3-1. Water Level Measurements

Well Identifier	TOC Elevation (ft AMSL)	Screened Interval	October 2016		January 2017	
			Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)	Depth to Water (ft BTOC)	Groundwater Elevation (ft AMSL)
6MW-20	305.44	5.0 – 15.0	6.43	299.01	5.68	299.76
6MW-22	309.83	4.0 – 9.0	6.79	303.04	6.45	303.38
6MW-23	308.37	4.0 – 9.0	6.38	301.99	5.75	302.62
6MW-24	310.6	4.0 – 9.0	7.39	303.21	6.74	303.86
6MW-25	306.12	4.0 – 9.0	4.19	301.93	3.50	302.62
6MW-26	307.05	4.0 – 9.0	5.09	301.96	4.45	302.60

Source: TOC elevations were obtained from the Base Monitoring Well Inventory (December 15, 2014).

AMSL = Above mean sea level.

BTOC = Below top of casing.

TOC = Top of casing.

Groundwater elevations for Site 6 derived from the October 2016 water level measurements ranged from 299.01 ft above mean sea level (AMSL) at well 6MW-20, located adjacent to the drainage ditch, to 303.21 ft AMSL at well 6MW-24, located at the northern end of the site. During the January 2017 event, groundwater elevations for the site ranged from 299.76 ft AMSL at well 6MW-20 to 303.86 ft AMSL at well 6MW-24. Groundwater flow direction remains consistent with the flow direction observed in past monitoring events and generally flows from north to south towards the drainage ditch and consistent with surface topography.

3.2 SAMPLING RESULTS

Figure 1-2 summarizes the analytical results of monitoring from August 2008 through the latest monitoring event in January 2017. Table 3-2 summarizes the analytical results and field parameters during the second and third monitoring events.

3.2.1 Second Monitoring Event

The second groundwater monitoring event was conducted on October 11, 2016, approximately 2.5 months after the most recent bioremediation injection (July 2016). Groundwater samples were collected from six monitoring wells (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26). All groundwater samples were analyzed for VOCs and TOC.

Table 3-2. August 2008 through January 2017 Monitoring Results

Well Identifier	NYSDEC	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20
Sample Identifier	AGWQS	6MW-2001	6MW-2001D	6MW-2002	6MW-2002D	6MW-2003	6MW-2003D
Date	(1998, last amended June 2004)	5/11/16	5/11/16	10/11/16	10/11/16	1/9/17	1/9/17
Groundwater Sample Type		Grab	FD	Grab	FD	Grab	FD
Volatile Organic Compounds (µg/L)							
Tetrachloroethene	5	6.8	7	ND	ND	ND	ND
Trichloroethene	5	0.86 J	1.3 J	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	1.5 J	1.5 J	4.4 J	3.9 J	3.1 J	3.1 J
Vinyl Chloride	2	ND	ND	3.6 J	4.1 J	2.3 J	2.4 J
General Chemistry (mg/L)							
Total Organic Carbon		3	3	1.2	NA	8.0	8.4
Dechlorinating Bacteria (cells/mL)							
Dehalococcoides sp.		NA	NA	NA	NA	NA	NA
Field Measurements							
Dissolved Oxygen (mg/L)		3.83	3.83	0.00	0.00	0.00	0.00
Oxidation-Reduction Potential (mV)		173	173	-224	-224	-174	-174
pH (S.U.)		6.75	6.75	6.51	6.51	6.34	6.34
Specific Conductance (mS/cm)		1.310	1.310	1.490	1.490	1.150	1.150
Temperature (°C)		17.9	17.91	16.37	16.37	16.00	16.00
Turbidity (NTU)		1.3	1.3	7.9	7.9	19.3	19.3
Water Level (ft BGS)		7.33	7.33	6.43	6.43	5.68	5.68

Bold highlighted values exceed the NYSDEC AGWQS.

Well was sampled during the baseline sampling event.

Well was sampled during this semiannual reporting period.

AGWQS = NYSDEC Class GA Ambient Groundwater Quality Standards.

BGS = Below ground surface.

FD = Field duplicate.

mS = MilliSiemens.

NA = Not analyzed.

ND = Not detected.

NTU = Nephelometric turbidity unit.

NYSDEC = New York State Department of Environmental Conservation.

S.U. = Standard unit.

Qualifiers:

J = Estimated concentration.

NYSDEC, 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) Memorandum Number 1.1.1. June (last amended June 2004).

Table 3-2. August 2008 through January 2017 Monitoring Results

Well Identifier	NYSDEC	6MW-22	6MW-22	6MW-22	6MW-23	6MW-23	6MW-23
Sample Identifier	AGWQS	6MW-2201	6MW-2202	6MW-2203	6MW-2301	6MW-2302	6MW-2303
Date	(1998, last amended June 2004)	05/11/16	10/11/16	01/09/17	05/12/16	10/11/16	01/09/17
Groundwater Sample Type		Grab	Grab	Grab	Grab	Grab	Grab
Volatile Organic Compounds (µg/L)							
Tetrachloroethene	5	16	1.6 J	5.2	13	0.31 J	0.81 J
Trichloroethene	5	3.4 J	1.2 J	2.2 J	3 J	0.34 J	0.79 J
cis-1,2-Dichloroethene	5	3.6 J	36	1.6 J	1.7 J	1.3 J	0.93 J
Vinyl Chloride	2	ND	9.3	2.5 J	ND	6.4	ND
General Chemistry (mg/L)							
Total Organic Carbon		2.5	370	280	2.8	41	2.6
Dechlorinating Bacteria (cells/mL)							
Dehalococcoides sp.		NA	NA	NA	NA	NA	NA
Field Measurements							
Dissolved Oxygen (mg/L)		4.78	0.00	6.60	3.20	0.00	7.55
Oxidation-Reduction Potential (mV)		194	-174	-134	-37	-154	-104
pH (S.U.)		6.87	6.34	6.73	6.81	6.66	7.1
Specific Conductance (mS/cm)		1.400	1.150	1.120	1.120	1.020	0.490
Temperature (°C)		18.78	16	5.2	13.84	17.94	4.5
Turbidity (NTU)		1.4	19.3	0.0	1.1	30.5	0.0
Water Level (ft BGS)		6.89	6.79	6.45	6.31	6.38	5.75

Bold highlighted values exceed the NYSDEC AGWQS.

Well was sampled during the baseline sampling event.

Well was sampled during this semiannual reporting period.

AGWQS = NYSDEC Class GA Ambient Groundwater Quality Standards.

BGS = Below ground surface.

FD = Field duplicate.

mS = MilliSiemens.

NA = Not analyzed.

ND = Not detected.

NTU = Nephelometric turbidity unit.

NYSDEC = New York State Department of Environmental Conservation.

S.U. = Standard unit.

Qualifiers:

J = Estimated concentration.

NYSDEC, 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) Memorandum Number 1.1.1.1. June (last amended June 2004).

Table 3-2. August 2008 through January 2017 Monitoring Results

Well Identifier	NYSDEC	6MW-24	6MW-24	6MW-24	6MW-25	6MW-25	6MW-25
Sample Identifier	AGWQS	6MW-2401	6MW-2402	6MW-2403	6MW-2501	6MW-2502	6MW-2503
Date	(1998, last amended June 2004)	05/12/16	10/11/16	01/09/17	05/11/16	10/11/16	01/09/17
Groundwater Sample Type		Grab	Grab	Grab	Grab	Grab	Grab
Volatile Organic Compounds (µg/L)							
Tetrachloroethene	5	4.8 J	ND	ND	58	ND	ND
Trichloroethene	5	ND	4.9 J	3.2 J	20	ND	ND
cis-1,2-Dichloroethene	5	5.9	13	3.6 J	5.8	0.7 J	1.5 J
Vinyl Chloride	2	ND	4.8 J	1.6 J	21	ND	ND
General Chemistry (mg/L)							
Total Organic Carbon		5.3	12	9.4	2.3	110	5.1
Dechlorinating Bacteria (cells/mL)							
Dehalococcoides sp.		NA	NA	NA	357.0	NA	NA
Field Measurements							
Dissolved Oxygen (mg/L)		7.59	0.00	8.40	3.41	0.00	6.37
Oxidation-Reduction Potential (mV)		237	-285	-125	12	-356	-110
pH (S.U.)		7.24	6.91	7.15	6.87	6.59	7.11
Specific Conductance (mS/cm)		1.260	0.965	1.400	1.920	1.770	0.348
Temperature (°C)		9.54	15.57	4.6	14.49	20.37	4.1
Turbidity (NTU)		1.3	5.6	0.0	1.9	5.4	0.0
Water Level (ft BGS)		7.82	7.39	6.74	4.13	4.19	3.50

Bold highlighted values exceed the NYSDEC AGWQS.

Well was sampled during the baseline sampling event.

Well was sampled during this semiannual reporting period.

AGWQS = NYSDEC Class GA Ambient Groundwater Quality Standards.

BGS = Below ground surface.

FD = Field duplicate.

mS = MilliSiemens.

NA = Not analyzed.

ND = Not detected.

NTU = Nephelometric turbidity unit.

NYSDEC = New York State Department of Environmental Conservation.

S.U. = Standard unit.

Qualifiers:

J = Estimated concentration.

NYSDEC, 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) Memorandum Number 1.1.1.1. June (last amended June 2004).

Table 3-2. August 2008 through January 2017 Monitoring Results

Well Identifier	NYSDEC	6MW-26	6MW-26	6MW-26
Sample Identifier	AGWQS	6MW-2601	6MW-2602	6MW-2603
Date	(1998, last amended June 2004)	05/11/16	10/11/16	01/09/17
Groundwater Sample Type		Grab	Grab	Grab
Volatile Organic Compounds (µg/L)				
Tetrachloroethene	5	6.6	ND	ND
Trichloroethene	5	1.2 J	0.32 J	ND
cis-1,2-Dichloroethene	5	1.1 J	2.6 J	2.5 J
Vinyl Chloride	2	ND	ND	ND
General Chemistry (mg/L)				
Total Organic Carbon		2.6	70	6.1
Dechlorinating Bacteria (cells/mL)				
Dehalococcoides sp.		NA	NA	NA
Field Measurements				
Dissolved Oxygen (mg/L)		3.77	0.00	7.01
Oxidation-Reduction Potential (mV)		43	-201	-130
pH (S.U.)		7.01	6.67	7.15
Specific Conductance (mS/cm)		1.430	1.900	1.700
Temperature (°C)		13.73	18.31	4.2
Turbidity (NTU)		1.4	0.0	0.0
Water Level (ft BGS)		4.97	5.09	4.45

Bold highlighted values exceed the NYSDEC AGWQS.

Well was sampled during the baseline sampling event.

Well was sampled during this semiannual reporting period.

AGWQS = NYSDEC Class GA Ambient Groundwater Quality Standards.

BGS = Below ground surface.

FD = Field duplicate.

mS = MilliSiemens.

NA = Not analyzed.

ND = Not detected.

NTU = Nephelometric turbidity unit.

NYSDEC = New York State Department of Environmental Conservation.

S.U. = Standard unit.

Qualifiers:

J = Estimated concentration.

NYSDEC, 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) Memorandum Number 1.1.1. June (last amended June 2004).

COCs

PCE was detected in two of the six wells at an estimated concentration of 0.31J µg/L at well 6MW-23 and of 1.6J µg/L at well 6MW-22, well below the NYSDEC groundwater standard of 5 µg/L.

TCE was detected in four of the six wells at estimated concentrations ranging from 0.32J µg/L at well 6MW-26 to 4.9J µg/L at well 6MW-24. No wells exceeded the NYSDEC groundwater standard of 5 µg/L.

cis-1,2-DCE was detected in all six wells at estimated concentrations ranging from 0.7J µg/L at well 6MW-25 to 36 µg/L at well 6MW-22. Two of the six wells (6MW-22 and 6MW-24) exceeded the NYSDEC groundwater standard of 5 µg/L.

VC was detected in four of the six wells at concentrations ranging from 3.6J µg/L at well 6MW-20 to 9.3 µg/L at well 6MW-22. Four of the six wells (6MW-20, 6MW-22, 6MW-23, and 6MW-24) had detected concentrations that exceeded the NYSDEC groundwater standard of 2 µg/L.

TOC

TOC was detected at concentrations ranging from 1.2 to 370 mg/L, with the highest concentration observed in well 6MW-22. TOC concentrations at all monitoring wells, with the exception of wells 6MW-20 and 6MW-24, remain at or above the 20- to 50-mg/L optimal range recommended to sustain the biodegradation process.

Field Parameters

DO is a measure of oxygen dissolved in a solution. Concentrations equal to 1 mg/L or less indicate an environment conducive to anaerobic conditions. DO concentrations during the October 2016 event were 0.0 mg/L in all six wells. All six wells had DO concentrations less than 1 mg/L, indicating conditions conducive to anaerobic dechlorination.

ORP is a measure of electron activity and an indicator of the relative tendency of a solution to accept or transfer electrons. ORP measurements ranged from -356 to -104 mV. All six wells had levels exceeding the ideal range of -100 mV, indicating conditions were ideal for anaerobic dechlorination.

pH measurements ranged from 6.34 to 6.91 standard units (S.U.). Five of the six wells were within the optimal range of 6.5 to 8.5 S.U. for anaerobic dechlorination.

Specific conductivity indicates the amount of dissolved solids in a solution. This value typically increases when an amendment solution containing a significant amount of one or more ionic species is injected into the aquifer. Specific conductivity values ranged from 0.965 to 1.9 milliSiemens (mS)/cm, with a median of 1.38 mS/cm. Overall, there has been a negligible change in conductivity since the May 2016 baseline monitoring event.

Turbidity is the cloudiness or haziness of a fluid due to the presence of suspended particles. The final turbidity reading ranged from 0.0 to 30.5 nephelometric turbidity units (NTUs), with a median turbidity of 11.45 NTUs. Overall, turbidity has been decreasing, indicating a dispersion of the amendment solution.

3.2.2 Third Monitoring Event

The third monitoring event was conducted on January 9, 2017, approximately 5.5 months after the most recent bioremediation injection (July 2016). Groundwater samples were collected from six monitoring wells (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26).

COCs

PCE was detected in two of the six wells at an estimated concentration of 0.81J µg/L at well 6MW-23 and of 5.2 µg/L at well 6MW-22, the latter of which is slightly above the NYSDEC groundwater standard of 5 µg/L.

TCE was detected in three of the six wells at estimated concentrations ranging from 0.79J µg/L at well 6MW-23 to 3.2J µg/L at well 6MW-24, all below the NYSDEC groundwater standard of 5 µg/L.

cis-1,2-DCE was detected in all six wells at estimated concentrations ranging from 0.93J µg/L at well 6MW-23 to 3.6J µg/L at well 6MW-24, all well below the NYSDEC groundwater standard of 5 µg/L.

VC was detected in three of the six wells at estimated concentrations ranging from 1.6J µg/L at well 6MW-24 to 2.5J µg/L at well 6MW-22. Two of the six wells (6MW-20 and 6MW-22) had detected concentrations that exceeded the NYSDEC groundwater standard of 2 µg/L.

TOC

TOC is a measure of nutrients available to support microbial activity. TOC was detected at concentrations ranging from 2.6 to 280 mg/L, with the highest concentration observed in well 6MW-22. TOC concentrations at monitoring well 6MW-22 remain at or above the 20- to 50-mg/L optimal range recommended to sustain the biodegradation process.

Field Parameters

DO concentrations during the January 2017 event ranged from 6.60 to 8.40 mg/L. DO concentrations increased to above 1 mg/L in all monitoring wells from the October 2016 to January 2017 event, indicating an environment not conducive to anaerobic dechlorination.

ORP ranged from -174 to -104 mV. A decrease in negativity since the October 2016 monitoring event in all monitoring wells indicates less reducing conditions; however, all six wells had levels exceeding the ideal range of -100 mV, indicating conditions were ideal for anaerobic dechlorination.

pH ranged from 6.73 to 7.25 S.U. All six wells were within the optimal range of 6.5 to 8.5 S.U. for anaerobic dechlorination.

Specific conductivity values ranged from 0.348 to 1.70 mS/cm, with a median of 0.985 mS/cm; the median of all six wells decreased from 1.38 mS/cm in October 2016 to 0.985 mS/cm in January 2017.

Final January 2017 turbidity readings in all wells were 0.0 NTUs. The median of all six wells decreased from 11.45 NTUs in October 2016 to 0.0 NTUs in January 2107, indicating a dispersion of amendment solution.

3.3 DISCUSSION

The results of the second and third groundwater monitoring events indicate significant changes since the first, or baseline, event (May 2016), and the desired progression of degradation from parent to daughter solvent compounds is evident in all six monitoring wells. Decreased PCE; TCE; and cis-1,2-DCE concentrations, and fluctuations in VC concentrations, point to ongoing anaerobic reductive dechlorination. Four of the six monitoring wells with one or more COCs above NYSDEC groundwater standards had reductions in concentrations below NYSDEC standards, most notably at well 6MW-25. Results from the January 2017 event showed COCs above NYSDEC groundwater standards in only two of the six wells. PCE exceeds the NYSDEC standard in well 6MW-22 and VC exceeds the NYSDEC standard in both wells 6MW-20 and 6MW-22.

TOC remains above the baseline concentrations in all six wells, but above the minimum optimum level in just one well (6MW-22). ORP values indicate anaerobic conditions favorable for reductive dechlorination. However, DO concentrations above 1.0 mg/L indicate the treatment area may be converting to an aerobic environment to complete the degradation of residual chlorinated daughter products by natural attenuation.

The combined concentration of PCE; TCE; cis-1,2-DCE; and VC above NYSDEC groundwater standards between the baseline event and the January 2017 event was 111.3 µg/L and 1.1 µg/L, respectively, for a total decrease of contaminant concentrations of 99% (Table 3-3). However, it should be noted that contaminant rebound is possible based on past injection events but is anticipated to be smaller in magnitude.

Table 3-3. Performance Summary for SANGB Site 6

VOCs (µg/L)	NYSDEC AGWQS	Total COC Concentrations >NYSDEC Standard (µg/L)		Percent Reduction
		05/11/16	01/09/17	
Tetrachloroethene	5	75.6	0.2	99.7%
Trichloroethene	5	15.0	0.0	100.0%
cis-1,2-Dichloroethene	5	1.7	0.0	100.0%
Vinyl Chloride	2	19.0	0.9	95.3%
	Total	111.3	1.1	99.0%

Note: The calculated reductions are based on the combined concentration of tetrachloroethene; trichloroethene; cis-1,2-dichloroethene; and vinyl chloride above NYSDEC groundwater standards between the baseline event and the January 2017 event (i.e., 100% reduction will be achieved when all concentrations are below NYSDEC groundwater standards).

AGWQS = Ambient Groundwater Quality Standards.

COC = Chemical of concern.

NYSDEC = New York State Department of Environmental Conservation.

SANGB = Stratton Air National Guard Base.

VOC = Volatile organic compound.

4.0 CONCLUSIONS

As agreed upon by ANG and NYSDEC, and detailed in the RAWP (Leidos 2016), RA-O activities were conducted at SANGB. The second and third groundwater monitoring events were conducted in October 2016 and January 2017, respectively. Six wells at Site 6 (6MW-20, 6MW-22, 6MW-23, 6MW-24, 6MW-25, and 6MW-26) were sampled for VOCs and TOC. The results of both groundwater monitoring events indicate significant changes since the first, or baseline, event (May 2016), and the desired progression of degradation from parent to daughter solvent compounds is evident in all six monitoring wells. Decreased PCE; TCE; and cis-1,2-DCE concentrations, and fluctuations in VC concentrations, point to ongoing anaerobic reductive dechlorination. However, the combination of contaminant levels dropping to low concentrations, low TOC concentrations, and high DO levels indicates some areas are turning aerobic, which is potentially favorable for natural attenuation for cis-1,2-DCE and VC.

Subsequent bioremediation injections will be evaluated in periodic groundwater monitoring reports. Continued monitoring will be conducted in accordance with the RAWP (Leidos 2016); the next monitoring event is scheduled for April 2017.

THIS PAGE WAS INTENTIONALLY LEFT BLANK.

5.0 REFERENCES

- ANG (Air National Guard) 2012. *Record of Decision for Sites 3 and 6 for the 109th Airlift Wing, Schenectady Air National Guard Base, Scotia, New York*, Final, March.
- ANG 2015. *Remedial Action Completion Report for Soil at Sites 3 and 6, Schenectady Air National Guard Base*, March.
- Leidos 2016. *Work Plan for Remedial Action-Operations, Monitoring, and Project Closeout at IRP Site 6 (Suspected Spill Area)*, Final, January.
- Leidos 2017. *Remedial Action Completion Report for Installation Restoration Program Site 6 (Suspected Spill Area), 109th Airlift Wing, Stratton Air National Guard Base (SANGB), Scotia, New York*, Final, February.
- Lu, X., J.T. Wilson, and D.H. Kampbell 2006. "Relationship between Dehalococcoides DNA in ground water and rates of reductive dechlorination at field scale." *Water Research* **40**:3131-3140.
- NYSDEC (New York State Department of Environmental Conservation) 1998. *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) Memorandum Number 1.1.1, June (last amended June 2004).
- NYSDEC 2015. Regarding Air National Guard Stratton, Site No.: 447022, Approval letter of the Remedial Action Completion Report for Soil at Sites 3 and 6, dated March.

THIS PAGE WAS INTENTIONALLY LEFT BLANK.

APPENDIX A – PURGE LOGS

THIS PAGE WAS INTENTIONALLY LEFT BLANK.

OCTOBER 2016

THIS PAGE WAS INTENTIONALLY LEFT BLANK.

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

DATE (mm/dd/yy): 10-11-16

TIME: 15:31

WELL ID NUMBER: 6MW-20

WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 5 ft. to 15 ft.

INNER CASING: TYPE: PVC or Steel ID: 0.75 inches 2 inches 4 inches

WATER QUALITY METER ID: 0066010

WATER LEVEL INDICATOR ID: GABMP30

PUMP ID: 105294

TURBIDITY ID: 0066010

PID ID: n/g

DEPTH TO WATER: 6.43 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 5 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 10.5 ^{3/8} 10 (see note) FT FROM MEASURE POINT

Note: If the water table is below the top of screen, the pump should be positioned in the middle of the water column.

PURGE/SAMPLE METHOD: ☐ Bailer ☐ Bladder Pump ☒ Other Pump Type peristaltic

PURGE START TIME: 1500

PURGE END TIME: 1531

TOTAL VOLUME PURGED: 2680 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: ☒ Yes ☐ No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: 326
(Signature)

QA CHECKED BY: M/R
(Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: Cmw-20

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1500	0	100	-175	16.51	6.18	1.57 ms/cm or S/m	3.98	10.8	6.43	
1510	1000	100	-182	16.22	6.35	1.56 ms/cm or S/m	2.01	9.4	7.22	
1513	1240	80	-185	16.27	6.41	1.54 ms/cm or S/m	1.11	20.1	7.49	Slow to 80 mL/min
1516	1480	80	-182	16.35	6.50	1.54 ms/cm or S/m	2.82	13.3	7.85	
1519	1720	80	-208	16.43	6.49	1.53 ms/cm or S/m	0.40	9.1	7.92	
1522	1960	80	-212	16.47	6.49	1.48 ms/cm or S/m	0.01	8.4	7.94	
1525	2200	80	-216	16.46	6.49	1.48 ms/cm or S/m	0.01	8.2	7.96	
1528	2440	80	-222	16.40	6.50	1.49 ms/cm or S/m	0.00	8.1	7.97	
1531	2680	80	-224	16.37	6.51	1.49 ms/cm or S/m	0.00	7.9	7.99	
			✓	✓	✓	✓ ms/cm or S/m	✓			
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY:

BA

(Signature)

QA CHECKED BY:

MM

(Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

DATE (mm/dd/yy): 10-11-16

TIME: 11 : 40

WELL ID NUMBER: 6MW-22

WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4 ft. to 9 ft.

INNER CASING: TYPE: PVC or Steel

ID: 0.75 inches 2 inches 4 inches

WATER QUALITY METER ID: 0066010

WATER LEVEL INDICATOR ID: GABMP30

PUMP ID: 106294

TURBIDITY ID: 0066010

PID ID: N/A

DEPTH TO WATER: 6.79' FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 7.9' ^{3.5} 6.5 (see note) FT FROM MEASURE POINT

Note: If the water table is below the top of screen, the pump should be positioned in the middle of the water column.

PURGE/SAMPLE METHOD: ☐ Bailer ☐ Bladder Pump ☒ Other Pump Type peristaltic

PURGE START TIME: 1058

PURGE END TIME: 1146

TOTAL VOLUME PURGED: 4800 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: ☐ Yes ☒ No IF NO, WHY WAS A DEVIATION NECESSARY: Well purged 47 minutes with no sign of improvement in turbidity

RECORDED BY: SB
(Signature)

QA CHECKED BY: MM
(Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: 6 MW-22

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1058	0	100	-88	15.38	5.95	1.14 ms/cm or S/m	1.65	148	6.79	
1108	1000	100	-142	16.03	6.24	1.14 ms/cm or S/m	0.00	82.2	7.04	Dump flow cell
1113	1500	100	-142	16.36	6.30	1.15 ms/cm or S/m	5.83	45.7	7.19	
1118	2000	100	-155	16.32	6.32	1.15 ms/cm or S/m	0.62	39.5	7.22	
1121	2300	100	-161	16.26	6.34	1.15 ms/cm or S/m	0.00	36.1	7.24	Dump flow cell
1124	2600	100	-154	16.03	6.35	1.15 ms/cm or S/m	1.05	19.8	7.30	
1127	2900	100	-159	16.06	6.37	1.15 ms/cm or S/m	0.00	22.8	7.34	
1137	3900	100	-165	16.01	6.34	1.15 ms/cm or S/m	0.00	20.6	7.39	
1140	4200	100	-169	15.97	6.31	1.15 ms/cm or S/m	0.00	21.7	7.44	
1143	4500	100	-170	15.99	6.32	1.15 ms/cm or S/m	0.00	19.5	7.47	
1146	4800	100	-174	16.00	6.34	1.15 ms/cm or S/m	0.00	19.3	7.50	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓		
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY:

32
(Signature)

QA CHECKED BY:

(Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

DATE (mm/dd/yy): 10-11-16

TIME: 12:51

WELL ID NUMBER: 6MW-23

WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4 ft. to 9 ft.

INNER CASING: TYPE: PVC or Steel

ID: 0.75 inches 2 inches 4 inches

WATER QUALITY METER ID: 0066010

WATER LEVEL INDICATOR ID: GABMP30

PUMP ID: 106294

TURBIDITY ID: 0066010

PID ID: n19

DEPTH TO WATER: 6.38 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 7.7' 6.5 (see note) FT FROM MEASURE POINT

Note: If the water table is below the top of screen, the pump should be positioned in the middle of the water column.

PURGE/SAMPLE METHOD: ☐ Bailer ☐ Bladder Pump ☒ Other Pump Type Peristaltic

PURGE START TIME: 1205

PURGE END TIME: 1251

TOTAL VOLUME PURGED: 4600 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: ☐ Yes ☒ No IF NO, WHY WAS A DEVIATION NECESSARY: Turbidity above 10 NTU, no sign of improvement after 45 minutes

RECORDED BY: [Signature]
(Signature)

QA CHECKED BY: [Signature]
(Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: 6MW-23

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1205	0	100	-94	17.21	5.75	1.01 ms/cm or S/m	6.18	183.0	6.38	
1215	1000	100	-125	17.55	6.37	1.03 ms/cm or S/m	1.30	183.0	6.38	Pump flow cell
1225	2000	100	-146	17.49	6.51	1.04 ms/cm or S/m	1.42	~~50.0~~ 37.2	6.38	
1235	3000	100	-150	17.90	6.63	1.01 ms/cm or S/m	0.00	37.2	6.40	
1240	3500	100	-152	17.79	6.65	1.02 ms/cm or S/m	0.00	29.9	6.41	
1245	4000	100	-152	17.84	6.65	1.02 ms/cm or S/m	0.00	29.9	6.41	
1248	4300	100	-152	17.91	6.65	1.02 ms/cm or S/m	0.00	28.6	6.41	
1251	4600	100	-154	17.94	6.66	1.02 ms/cm or S/m	0.00	30.5	6.41	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓		
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY:

SB
(Signature)

QA CHECKED BY:

MM
(Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6

DELIVERY ORDER NO: 187 AND 190

DATE (mm/dd/yy): 10-11-16

TIME: 10:03

WELL ID NUMBER: 6MW-24

WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4.0 ft. to 9.0 ft.

INNER CASING: TYPE: PVC or Steel ID: 0.75 inches 2 inches 4 inches

WATER QUALITY METER ID: 0066010

WATER LEVEL INDICATOR ID: GABMP30

PUMP ID: 106294

TURBIDITY ID: 0066010

PID ID: N/A

DEPTH TO WATER: 7.39' FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 8.2' 6.5" (see note) FT FROM MEASURE POINT

Note: If the water table is below the top of screen, the pump should be positioned in the middle of the water column.

PURGE/SAMPLE METHOD: ☐ Bailer ☒ Bladder Pump ☐ Other Pump Type _____

PURGE START TIME: 0944 PURGE END TIME: 1003

TOTAL VOLUME PURGED: 1900 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: ☒ Yes ☐ No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: [Signature]
(Signature)

QA CHECKED BY: [Signature]
(Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: 6 MW-24

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
0944	0	100	-217	14.17	6.30	0.967 ms/cm or S/m	5.96	6.6	7.39	
0954	1000	100	-261	15.38	6.76	0.966 ms/cm or S/m	0.00	6.3	7.66	
0957	1300	100	-277	15.57	6.83	0.964 ms/cm or S/m	0.00	5.2	7.69	
1000	1600	100	-281	15.56	6.87	0.964 ms/cm or S/m	0.00	5.8	7.73	
1003	1900	100	-285	15.57	6.91	0.965 ms/cm or S/m	0.00	5.6	7.77	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓		
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY:

58
(Signature)

QA CHECKED BY:

MM
(Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

DATE (mm/dd/yy): 10-11-16

TIME: 14:39

WELL ID NUMBER: 6MW-25

WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4 ft. to 9 ft.

INNER CASING: TYPE: PVC or Steel

ID: 0.75 inches 2 inches 4 inches

WATER QUALITY METER ID: 0066010

WATER LEVEL INDICATOR ID: GABMP36

PUMP ID: 100294

TURBIDITY ID: 0066010

PID ID: nla

DEPTH TO WATER: 4.19 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6.5 (see note) FT FROM MEASURE POINT

Note: If the water table is below the top of screen, the pump should be positioned in the middle of the water column.

PURGE/SAMPLE METHOD: ☐ Bailer ☐ Bladder Pump ☒ Other Pump Type Peristaltic

PURGE START TIME: 1420

PURGE END TIME: 1439

TOTAL VOLUME PURGED: 1900 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: ☒ Yes ☐ No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: [Signature]
(Signature)

QA CHECKED BY: [Signature]
(Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: GMW-25

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOW)	COMMENTS
1420	0	100	-345	20.28	6.62	1.77 ms/cm or S/m	1.93	4.6	4.19	
1430	1000	100	-351	20.13	6.70	1.80 ms/cm or S/m	0.25	5.0	4.18	
1433	1300	100	-350	20.25	6.62	1.78 ms/cm or S/m	0.00	5.7	4.18	
1436	1400	100	-354	20.33	6.60	1.77 ms/cm or S/m	0.00	5.8	4.18	
1439	1900	100	-356	20.37	6.59	1.77 ms/cm or S/m	0.00	5.4	4.18	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓		
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY:

[Signature]
(Signature)

QA CHECKED BY:

[Signature]
(Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

DATE (mm/dd/yy): 10-11-16

TIME: 13:39

WELL ID NUMBER: 6MW-26

WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4.0 ft. to 9.0 ft.

INNER CASING: TYPE: PVC or Steel

ID: 0.75 inches 2 inches 4 inches

WATER QUALITY METER ID: 0066010

WATER LEVEL INDICATOR ID: GABMP30

PUMP ID: 100294

TURBIDITY ID: 0066010

PID ID: nla

DEPTH TO WATER: 5.09 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 7.0' ²⁸~~65~~ (see note) FT FROM MEASURE POINT

Note: If the water table is below the top of screen, the pump should be positioned in the middle of the water column.

PURGE/SAMPLE METHOD: ☐ Bailer ☐ Bladder Pump ☒ Other Pump Type peristaltic

PURGE START TIME: 1310

PURGE END TIME: _____

TOTAL VOLUME PURGED: 2900 mL

S&A PLAN SAMPLING PROCEDURE FOLLOWED: ☒ Yes ☐ No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: [Signature]
(Signature)

QA CHECKED BY: [Signature]
(Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: GMW-26

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1310	0	100	-164	18.55	6.17	1.19 ms/cm or S/m	4.60	484.0	5.09	
1320	1000	100	-184	18.42	6.53	1.91 ms/cm or S/m	0.00	738.0	5.28	Dump flow cell
1330	2000	100	-187	18.36	6.63	1.91 ms/cm or S/m	0.00	0.0	5.28	
1333	2300	100	-195	18.32	6.65	1.90 ms/cm or S/m	0.00	0.0	5.28	
1336	2600	100	-199	18.33	6.66	1.90 ms/cm or S/m	0.00	0.0	5.28	
1339	2900	100	-201	18.31	6.67	1.90 ms/cm or S/m	0.00	0.0	5.28	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓		
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY:

(Signature)

QA CHECKED BY:

(Signature)

JANUARY 2017

THIS PAGE WAS INTENTIONALLY LEFT BLANK.

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

DATE (mm/dd/yy): 11/9/17

TIME: 2:30

WELL ID NUMBER: 6MW-20

WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 5 ft. to 15 ft.

INNER CASING: TYPE: PVC or Steel ID: 0.75 inches 2 inches 4 inches

WATER QUALITY METER ID: Horiba W22 XD

WATER LEVEL INDICATOR ID: MP30-150 ft

PUMP ID: Pelican 1430 case

TURBIDITY ID: Horiba

PID ID: -

DEPTH TO WATER: 5.68 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 5 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 10 (see note) FT FROM MEASURE POINT

Note: If the water table is below the top of screen, the pump should be positioned in the middle of the water column.

PURGE/SAMPLE METHOD: ☐ Bailer ☐ Bladder Pump ☒ Other Pump Type Peristaltic Pump

PURGE START TIME: 2:30 pm

PURGE END TIME: 2:51 pm

TOTAL VOLUME PURGED: 3.5 Liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: ☒ Yes ☐ No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: [Signature]
(Signature)

QA CHECKED BY: [Signature]
(Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: 6 MW-20

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
2:30	—	150	-168	3.7	7.22	0.845 ms/cm or S/m	9.26	0.0	5.68	
2:33	.5	150	-169	3.9	7.22	0.845 ms/cm or S/m	8.71	0.0	5.72	
2:36	1.2	150	-170	4.2	7.23	0.846 ms/cm or S/m	8.23	0.0	5.72	
2:39	1.5	150	-171	4.3	7.23	0.843 ms/cm or S/m	7.81	0.0	5.72	
2:42	2.2	150	-172	4.5	7.24	0.848 ms/cm or S/m	7.28	0.0	5.72	
2:45	2.5	150	-173	4.5	7.25	0.850 ms/cm or S/m	6.65	0.0	5.72	
2:48	3.2	150	-173	4.4	7.25	0.850 ms/cm or S/m	6.63	10.0	5.72	
2:51	3.5	150	-174	4.3	7.25	0.851 ms/cm or S/m	6.61	0.0	5.72	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓		
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY:

Michael D. Blais
(Signature)

QA CHECKED BY:

nmj
(Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

DATE (mm/dd/yy): 11/9/17

TIME: 11:10

WELL ID NUMBER: 6MW-22

WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4 ft. to 9 ft.

INNER CASING: TYPE: PVC or Steel

ID: 0.75 inches 2 inches 4 inches

WATER QUALITY METER ID: Horiba W22 XD

WATER LEVEL INDICATOR ID: MP30-150 ft

PUMP ID: Pelican 1430 Case

TURBIDITY ID: Horiba

PID ID: —

DEPTH TO WATER: 6.45 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6.5 (see note) FT FROM MEASURE POINT

Note: If the water table is below the top of screen, the pump should be positioned in the middle of the water column.

PURGE/SAMPLE METHOD: ☐ Bailer ☐ Bladder Pump

☒ Other Pump Type Peristaltic Pump

PURGE START TIME: 11:10 am

PURGE END TIME: 11:37 am

TOTAL VOLUME PURGED: 4.5 liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: ☒ Yes ☐ No IF NO, WHY WAS A DEVIATION NECESSARY: —

RECORDED BY: Michael J. [Signature]

(Signature)

QA CHECKED BY: M. [Signature]

(Signature)

GROUND WATER MICRO PURGE LOG

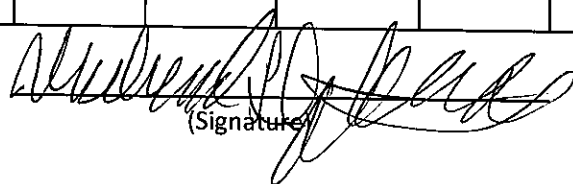
WELL ID: 6 MW-22

PROJECT NAME: SCHENECTADY SITE 6

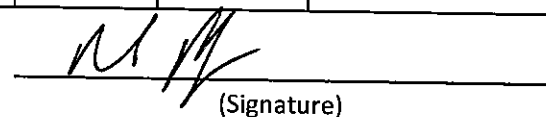
TASK ORDER 0004

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
11:10	-	150	-119	5.8	6.66	1.09 ms/cm or S/m	7.74	0.0	6.45	1/9/17
11:13	0.5	150	-122	5.6	6.67	1.10 ms/cm or S/m	7.26	0.0	6.48	
11:16	1.2	150	-123	5.5	6.68	1.11 ms/cm or S/m	7.15	0.0	6.48	
11:19	1.5	150	-125	5.6	6.69	1.12 ms/cm or S/m	7.09	0.0	6.48	
11:22	2.2	150	-127	5.5	6.70	1.10 ms/cm or S/m	7.02	0.0	6.48	
11:25	2.5	150	-128	5.4	6.70	1.11 ms/cm or S/m	6.96	0.0	6.48	
11:28	3.2	150	-130	5.3	6.72	1.11 ms/cm or S/m	6.73	0.0	6.48	
11:31	3.5	150	-131	5.3	6.72	1.11 ms/cm or S/m	6.64	0.0	6.48	
11:34	4.2	150	-133	5.2	6.73	1.11 ms/cm or S/m	6.62	0.0	6.48	
11:37	4.5	150	-134	5.2	6.73	1.12 ms/cm or S/m	6.60	0.0	6.48	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓		
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY:


(Signature)

QA CHECKED BY:


(Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

DATE (mm/dd/yy): 1/4/17

TIME: 12:25

WELL ID NUMBER: 6MW-23

WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4 ft. to 9 ft.

INNER CASING: TYPE: PVC or Steel

ID: 0.75 inches 2 inches 4 inches

WATER QUALITY METER ID: Horiba W22 XD

WATER LEVEL INDICATOR ID: MP30-150 ft

PUMP ID: Pelican 1430 Case

TURBIDITY ID: Horiba

PID ID: —

DEPTH TO WATER: 5.75 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6.5 (see note) FT FROM MEASURE POINT

Note: If the water table is below the top of screen, the pump should be positioned in the middle of the water column.

PURGE/SAMPLE METHOD: ☐ Bailer ☐ Bladder Pump ☒ Other Pump Type Peristaltic Pump

PURGE START TIME: 12:15

PURGE END TIME: 12:39

TOTAL VOLUME PURGED: 4 Liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: ☒ Yes ☐ No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: [Signature]

(Signature)

QA CHECKED BY: [Signature]

(Signature)

GROUND WATER MICRO PURGE LOG

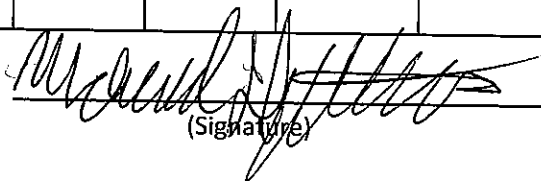
WELL ID: 6 MW-23

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
12:15	-	150	1	3.4	7.62	0.354 ms/cm or S/m	12.73	15.3	5.75	1/4/17
12:18	0.5	150	-3	3.5	7.55	0.408 ms/cm or S/m	12.19	6.7	5.75	
12:21	1.2	150	-37	3.6	7.66	0.436 ms/cm or S/m	10.02	0.0	5.75	
12:24	1.5	150	-63	3.9	7.25	0.445 ms/cm or S/m	8.88	0.0	5.75	
12:27	2.2	150	-81	4.1	7.19	0.450 ms/cm or S/m	8.36	0.0	5.75	
12:30	2.5	150	-93	4.3	7.14	0.451 ms/cm or S/m	7.94	0.0	5.75	
12:33	3.2	150	-98	4.3	7.11	0.484 ms/cm or S/m	7.59	0.0	5.75	
12:36	3.5	150	-103	4.5	7.11	0.489 ms/cm or S/m	7.52	0.0	5.75	
12:39	4.6	150	-104	4.8	7.10	0.490 ms/cm or S/m	7.58	0.0	5.75	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓		
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY:


(Signature)

QA CHECKED BY:


(Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6

DELIVERY ORDER NO: 187 AND 190

DATE (mm/dd/yy): 1/9/17

TIME: 10:45

WELL ID NUMBER: 6MW-24

WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4.0 ft. to 9.0 ft.

INNER CASING: TYPE: PVC or Steel ID: 0.75 inches 2 inches 4 inches

WATER QUALITY METER ID: Horiba W 22 XD

WATER LEVEL INDICATOR ID: MP30-150 EX

PUMP ID: Pelican 1430 case

TURBIDITY ID: Horiba

PID ID: —

DEPTH TO WATER: 6.78 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6.5 (see note) FT FROM MEASURE POINT

Note: If the water table is below the top of screen, the pump should be positioned in the middle of the water column.

PURGE/SAMPLE METHOD: ☐ Bailer ☐ Bladder Pump ☒ Other Pump Type Peristaltic Pump

PURGE START TIME: 10:45 PURGE END TIME: 10:49

TOTAL VOLUME PURGED: 5 Liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: ☒ Yes ☐ No IF NO, WHY WAS A DEVIATION NECESSARY: —

RECORDED BY: MPP for Michael Doyette
(Signature)

QA CHECKED BY: MV
(Signature)

GROUND WATER MICRO PURGE LOG

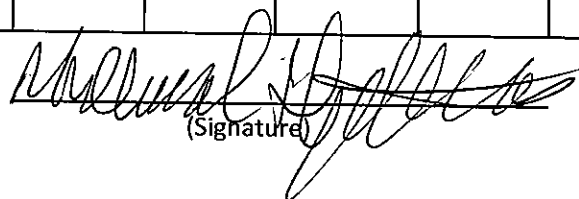
WELL ID: 6MW-24

PROJECT NAME: SCHENECTADY SITE 6

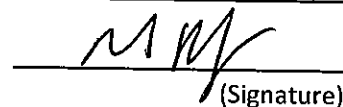
TASK ORDER 0004

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOW)	COMMENTS
10:15	—	150	69	5.9	6.09	131 ms/cm or S/m	16.06	0.0	6.74	1/9/15
10:17	.5	150	63	6.4	6.52	133 ms/cm or S/m	9.11	0.0	6.78	
10:20	1 L	150	25	5.7	6.89	137 ms/cm or S/m	9.37	0.0	6.78	
10:23	2.5	150	29	5.7	6.97	137 ms/cm or S/m	9.02	0.0	6.78	
10:26	2 L	150	-26	5.5	7.05	138 ms/cm or S/m	8.65	0.0	6.78	
10:29	2.5	150	-35	5.6	7.07	137 ms/cm or S/m	8.49	0.0	6.78	
10:32	3 L	150	-56	5.7	7.10	137 ms/cm or S/m	8.29	0.0	6.78	
10:35	3.5	150	-105	4.8	7.14	141 ms/cm or S/m	8.42	0.0	6.78	
10:38	4 L	150	-114	4.5	7.15	140 ms/cm or S/m	8.41	0.0	6.78	
10:41	4.5	150	-123	4.7	7.15	140 ms/cm or S/m	8.40	0.0	6.78	
10:44	5 L	150	-125	4.6	7.15	140 ms/cm or S/m	8.40	0.0	6.78	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓		
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY:


(Signature)

QA CHECKED BY:


(Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

DATE (mm/dd/yy): 11/9/17

TIME: 1:45

WELL ID NUMBER: 6MW-25

WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4 ft. to 9 ft.

INNER CASING: TYPE: PVC or Steel ID: 0.75 inches 2 inches 4 inches

WATER QUALITY METER ID: Horiba W22 XD

WATER LEVEL INDICATOR ID: MP 30-150 ft

PUMP ID: Pelican 1430 case

TURBIDITY ID: Horiba

PID ID: —

DEPTH TO WATER: 3.50 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6.5 (see note) FT FROM MEASURE POINT

Note: If the water table is below the top of screen, the pump should be positioned in the middle of the water column.

PURGE/SAMPLE METHOD: ☐ Bailer ☐ Bladder Pump ☒ Other Pump Type Peristaltic Pump

PURGE START TIME: 1:45 PURGE END TIME: 2:17

TOTAL VOLUME PURGED: 4.5 Liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: ☒ Yes ☐ No IF NO, WHY WAS A DEVIATION NECESSARY: —

RECORDED BY: Michael J. [Signature]
(Signature)

QA CHECKED BY: M. [Signature]
(Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: 6 MW-25

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOC)	COMMENTS
1:45	—	150	-48	4.0	7.81	0.377 ms/cm or S/m	9.47	0.0	3.50	1/9/17
1:48	-5	150	-52	3.9	7.71	0.369 ms/cm or S/m	9.34	0.0	3.54	
1:51	12	150	-64	3.9	7.43	0.359 ms/cm or S/m	7.86	0.0	3.54	
1:54	1.5	150	-69	3.8	7.37	0.356 ms/cm or S/m	7.88	0.0	3.54	
1:57	22	150	-86	3.6	7.26	0.357 ms/cm or S/m	7.18	0.0	3.54	
2:00	2.5	150	-96	3.8	7.17	0.350 ms/cm or S/m	6.68	0.0	3.54	
2:03	32	150	-107	4.1	7.14	0.349 ms/cm or S/m	6.41	0.0	3.54	
2:06	35	150	-109	4.0	7.13	0.348 ms/cm or S/m	6.39	0.0	3.54	
2:09	42	150	-110	4.0	7.13	0.348 ms/cm or S/m	6.37	0.0	3.54	
2:12	4.5	150	-110	4.1	7.11	0.348 ms/cm or S/m	6.37	0.0	3.54	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓		
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY:

Andrew D. [Signature]
(Signature)

QA CHECKED BY:

M. [Signature]
(Signature)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

DATE (mm/dd/yy): 11/9/17

TIME: 1:05

WELL ID NUMBER: 6MW-26

WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 4.0 ft. to 9.0 ft.

INNER CASING: TYPE: PVC or Steel

ID: 0.75 inches 2 inches 4 inches

WATER QUALITY METER ID: Horiba W22 XD

WATER LEVEL INDICATOR ID: MP30-150 ft

PUMP ID: Pelican 1430 case

TURBIDITY ID: Horiba

PID ID: -

DEPTH TO WATER: 4.45 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 6.5 (see note) FT FROM MEASURE POINT

Note: If the water table is below the top of screen, the pump should be positioned in the middle of the water column.

PURGE/SAMPLE METHOD: ☐ Bailer ☐ Bladder Pump

☒ Other Pump Type Peristaltic Pump

PURGE START TIME: 1405

PURGE END TIME: 1920

TOTAL VOLUME PURGED: 2.5 LITERS

S&A PLAN SAMPLING PROCEDURE FOLLOWED: ☒ Yes ☐ No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: [Signature]
(Signature)

QA CHECKED BY: [Signature]
(Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: 6 MW-26

PROJECT NAME: SCHENECTADY SITE 6

TASK ORDER 0004

TIME	LITERS REMOVED	PURGE RATE (mL/min)	ORP (mv)	TEMP (Celsius)	pH (s.u.)	COND (RECORD UNITS)	DO (mg/L)	TURBIDITY (NTU)	DEPTH TO WATER (FT BTOT)	COMMENTS
1:05	-	150	-120	5.0	7.14	1.69 ms/cm or S/m	8.07	0.0	4.45	1/19/17
1:08	.5	150	-127	4.9	7.15	1.69 ms/cm or S/m	7.89	0.0	4.47	
1:11	1.2	150	-128	4.8	7.15	1.70 ms/cm or S/m	7.73	0.0	4.47	
1:14	1.5	150	-129	4.8	7.14	1.70 ms/cm or S/m	7.09	0.0	4.47	
1:17	2.2	150	-129	4.4	7.15	1.70 ms/cm or S/m	7.07	0.0	4.47	
1:20	2.5	150	-130	4.2	7.15	1.70 ms/cm or S/m	7.01	0.0	4.47	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓		
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY:

[Signature]
(Signature)

QA CHECKED BY:

[Signature]

(Signature)

**APPENDIX B – ANALYTICAL LABORATORY DATA PACKAGES
PERFORMANCE MONITORING – OCTOBER 2016 AND JANUARY 2017**

**(FOR HARD COPY VERSIONS OF THIS REPORT, ALL OF APPENDIX B
IS INCLUDED ON THE COMPLETE DOCUMENT COMPACT DISC)**

THIS PAGE WAS INTENTIONALLY LEFT BLANK.

OCTOBER 2016

THIS PAGE WAS INTENTIONALLY LEFT BLANK.

ANALYTICAL REPORT

Job Number: 280-89533-1

Job Description: Schenectady ANGB, NY

For:

Leidos, Inc.

301 Laboratory Road

Leidos SSC-AP

LOC #47, MS 2113-03

Oak Ridge, TN 37830

Attention: Mr. Michael Poligone



Approved for release.
Jessica H DeHerrera
Project Manager I
10/28/2016 7:05 PM

Jessica H DeHerrera, Project Manager I
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0165
jessica.deherrera@testamericainc.com
10/28/2016

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

The Lab Certification ID# is 4025.

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

TestAmerica Laboratories, Inc.

TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002

Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com



Table of Contents

Cover Title Page	1
Data Summaries	4
Definitions	4
Case Narrative	5
Detection Summary	6
Client Sample Results	8
Default Detection Limits	20
Surrogate Summary	22
QC Sample Results	23
QC Association	31
Chronicle	32
Certification Summary	34
Method Summary	36
Sample Summary	37
Manual Integration Summary	38
Reagent Traceability	40
COAs	54
Organic Sample Data	68
GC/MS VOA	68
Method 8260C DOD	68
Method 8260C DOD QC Summary	69
Method 8260C DOD Sample Data	82
Standards Data	182
Method 8260C DOD ICAL Data	182
Method 8260C DOD CCAL Data	230
Raw QC Data	253

Table of Contents

Method 8260C DOD Tune Data	253
Method 8260C DOD Blank Data	261
Method 8260C DOD LCS/LCSD Data	268
Method 8260C DOD MS/MSD Data	282
Method 8260C DOD Run Logs	298
Inorganic Sample Data	300
General Chemistry Data	300
Gen Chem Cover Page	301
Gen Chem Sample Data	302
Gen Chem QC Data	308
Gen Chem ICV/CCV	308
Gen Chem Blanks	309
Gen Chem LCS/LCSD	310
Gen Chem MDL	312
Gen Chem Analysis Run Log	314
Gen Chem Prep Data	316
Gen Chem Raw Data	317
Subcontracted Data	357
Shipping and Receiving Documents	358
Client Chain of Custody	359
Sample Receipt Checklist	361

Definitions/Glossary

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation

General Chemistry

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Leidos, Inc.

Project: Schenectady ANGB, NY

Report Number: 280-89533-1

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

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

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

RECEIPT

The samples were received on 10/12/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples 6MW2002 (280-89533-1), 6MW2002D (280-89533-2), 6MW2302 (280-89533-3), 6MW2202 (280-89533-4), 6MW2402 (280-89533-5), 6MW2502 (280-89533-6), 6MW2602 (280-89533-7) and TB03 (280-89533-8) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with 8260C_DOD5. The samples were analyzed on 10/21/2016.

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) and/or closing continuing calibration verification (CCVC) associated with batch 160-275504: 2-Butanone, 2-Hexanone, Bromomethane, and Acetone. A low level CCV was analyzed at the base reporting limit of 5ug/L and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCV 160-275504/4) and (CCVC 160-275504/21)

The closing continuing calibration verification (CCVC) associated with batch 160-275504 recovered outside acceptance criteria, low biased, for Bromomethane. The opening CCV, LCS, and LCSD all passed for this analyte indicating initial acceptability. The MS/MSD showed the percent recoveries of Bromomethane steadily decreasing, indicating potential matrix effects being present. Additionally, during preparation of the samples for analysis multiple samples were observed to cause slight foaming when agitated. In order to protect the integrity of the instrument, these samples were not reanalyzed. There are no detections above reporting limit for Bromomethane. (CCVC 160-275504/21)

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

TOTAL ORGANIC CARBON

Samples 6MW2002 (280-89533-1), 6MW2302 (280-89533-3), 6MW2202 (280-89533-4), 6MW2402 (280-89533-5), 6MW2502 (280-89533-6) and 6MW2602 (280-89533-7) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 10/25/2016.

Samples 6MW2202 (280-89533-4)[8X], 6MW2502 (280-89533-6)[3.33X] and 6MW2602 (280-89533-7)[1.79X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2002

Lab Sample ID: 280-89533-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	4.3	J	20	0.39	ug/L	1		8260C DOD	Total/NA
Bromomethane	1.1	J	10	0.40	ug/L	1		8260C DOD	Total/NA
Carbon disulfide	0.86	J	5.0	0.37	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	4.4	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	3.6	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	1.2		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2002D

Lab Sample ID: 280-89533-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	8.8	J	20	0.39	ug/L	1		8260C DOD	Total/NA
Bromomethane	1.6	J	10	0.40	ug/L	1		8260C DOD	Total/NA
Carbon disulfide	0.66	J	5.0	0.37	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	3.9	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	4.1	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA

Client Sample ID: 6MW2302

Lab Sample ID: 280-89533-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	15	J	20	0.39	ug/L	1		8260C DOD	Total/NA
Acetone	16	J	20	6.7	ug/L	1		8260C DOD	Total/NA
Bromomethane	1.7	J	10	0.40	ug/L	1		8260C DOD	Total/NA
Carbon disulfide	0.46	J	5.0	0.37	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	1.3	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Tetrachloroethene	0.31	J	5.0	0.28	ug/L	1		8260C DOD	Total/NA
trans-1,2-Dichloroethene	0.60	J	5.0	0.18	ug/L	1		8260C DOD	Total/NA
Trichloroethene	0.34	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	6.4		5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	41		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2202

Lab Sample ID: 280-89533-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	29		20	0.39	ug/L	1		8260C DOD	Total/NA
2-Hexanone	8.6	J	20	0.59	ug/L	1		8260C DOD	Total/NA
Acetone	180		20	6.7	ug/L	1		8260C DOD	Total/NA
Bromomethane	0.97	J	10	0.40	ug/L	1		8260C DOD	Total/NA
Carbon disulfide	0.60	J	5.0	0.37	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	36		5.0	0.16	ug/L	1		8260C DOD	Total/NA
Tetrachloroethene	1.6	J	5.0	0.28	ug/L	1		8260C DOD	Total/NA
trans-1,2-Dichloroethene	0.39	J	5.0	0.18	ug/L	1		8260C DOD	Total/NA
Trichloroethene	1.2	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	9.3		5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	370		8.0	1.2	mg/L	8		9060A	Total/NA

Client Sample ID: 6MW2402

Lab Sample ID: 280-89533-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	3.9	J	20	0.39	ug/L	1		8260C DOD	Total/NA
Bromomethane	1.0	J	10	0.40	ug/L	1		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2402 (Continued)

Lab Sample ID: 280-89533-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.3	J	5.0	0.37	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	13		5.0	0.16	ug/L	1		8260C DOD	Total/NA
trans-1,2-Dichloroethene	0.32	J	5.0	0.18	ug/L	1		8260C DOD	Total/NA
Trichloroethene	4.9	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	4.8	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	12		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2502

Lab Sample ID: 280-89533-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	27		20	0.39	ug/L	1		8260C DOD	Total/NA
Acetone	36		20	6.7	ug/L	1		8260C DOD	Total/NA
Bromomethane	1.1	J	10	0.40	ug/L	1		8260C DOD	Total/NA
Carbon disulfide	1.5	J	5.0	0.37	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	0.70	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
trans-1,2-Dichloroethene	1.7	J	5.0	0.18	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	110		3.3	0.52	mg/L	3.33		9060A	Total/NA

Client Sample ID: 6MW2602

Lab Sample ID: 280-89533-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	27		20	0.39	ug/L	1		8260C DOD	Total/NA
Acetone	58		20	6.7	ug/L	1		8260C DOD	Total/NA
Bromomethane	0.70	J	10	0.40	ug/L	1		8260C DOD	Total/NA
Carbon disulfide	1.0	J	5.0	0.37	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	2.6	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
trans-1,2-Dichloroethene	0.29	J	5.0	0.18	ug/L	1		8260C DOD	Total/NA
Trichloroethene	0.32	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	70		1.8	0.28	mg/L	1.79		9060A	Total/NA

Client Sample ID: TB03

Lab Sample ID: 280-89533-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	5.6	J	20	0.39	ug/L	1		8260C DOD	Total/NA
Carbon disulfide	0.71	J	5.0	0.37	ug/L	1		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2002

Date Collected: 10/11/16 15:31

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-1

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			10/21/16 12:03	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/21/16 12:03	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/21/16 12:03	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/21/16 12:03	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/21/16 12:03	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/21/16 12:03	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/21/16 12:03	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/21/16 12:03	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/21/16 12:03	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/21/16 12:03	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/21/16 12:03	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/21/16 12:03	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/21/16 12:03	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/21/16 12:03	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/21/16 12:03	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/21/16 12:03	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/21/16 12:03	1
2-Butanone (MEK)	4.3	J	20	0.39	ug/L			10/21/16 12:03	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/21/16 12:03	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/21/16 12:03	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/21/16 12:03	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/21/16 12:03	1
Acetone	10	U	20	6.7	ug/L			10/21/16 12:03	1
Benzene	1.0	U	5.0	0.25	ug/L			10/21/16 12:03	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/21/16 12:03	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/21/16 12:03	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/21/16 12:03	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/21/16 12:03	1
Bromomethane	1.1	J	10	0.40	ug/L			10/21/16 12:03	1
Carbon disulfide	0.86	J	5.0	0.37	ug/L			10/21/16 12:03	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/21/16 12:03	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/21/16 12:03	1
Chloroethane	1.0	U	10	0.38	ug/L			10/21/16 12:03	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/21/16 12:03	1
Chloromethane	2.0	U	10	0.55	ug/L			10/21/16 12:03	1
cis-1,2-Dichloroethene	4.4	J	5.0	0.16	ug/L			10/21/16 12:03	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/21/16 12:03	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/21/16 12:03	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/21/16 12:03	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/21/16 12:03	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/21/16 12:03	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/21/16 12:03	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/21/16 12:03	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/21/16 12:03	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/21/16 12:03	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/21/16 12:03	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/21/16 12:03	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/21/16 12:03	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/21/16 12:03	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2002

Date Collected: 10/11/16 15:31

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-1

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/21/16 12:03	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 12:03	1
Styrene	1.0	U	5.0	0.35	ug/L			10/21/16 12:03	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 12:03	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/21/16 12:03	1
Toluene	1.0	U	5.0	1.0	ug/L			10/21/16 12:03	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/21/16 12:03	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/21/16 12:03	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/21/16 12:03	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/21/16 12:03	1
Vinyl chloride	3.6	J	5.0	0.43	ug/L			10/21/16 12:03	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/21/16 12:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		81 - 118		10/21/16 12:03	1
4-Bromofluorobenzene (Surr)	110		85 - 114		10/21/16 12:03	1
Dibromofluoromethane (Surr)	105		80 - 119		10/21/16 12:03	1
Toluene-d8 (Surr)	106		89 - 112		10/21/16 12:03	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	1.2		1.0	0.16	mg/L			10/25/16 13:37	1

Client Sample ID: 6MW2002D

Date Collected: 10/11/16 15:31

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-2

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			10/21/16 13:43	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/21/16 13:43	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/21/16 13:43	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/21/16 13:43	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/21/16 13:43	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/21/16 13:43	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/21/16 13:43	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/21/16 13:43	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/21/16 13:43	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/21/16 13:43	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/21/16 13:43	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/21/16 13:43	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/21/16 13:43	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/21/16 13:43	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/21/16 13:43	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/21/16 13:43	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/21/16 13:43	1
2-Butanone (MEK)	8.8	J	20	0.39	ug/L			10/21/16 13:43	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/21/16 13:43	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/21/16 13:43	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/21/16 13:43	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2002D

Lab Sample ID: 280-89533-2

Date Collected: 10/11/16 15:31

Matrix: Water

Date Received: 10/12/16 09:55

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/21/16 13:43	1
Acetone	10	U	20	6.7	ug/L			10/21/16 13:43	1
Benzene	1.0	U	5.0	0.25	ug/L			10/21/16 13:43	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/21/16 13:43	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/21/16 13:43	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/21/16 13:43	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/21/16 13:43	1
Bromomethane	1.6	J	10	0.40	ug/L			10/21/16 13:43	1
Carbon disulfide	0.66	J	5.0	0.37	ug/L			10/21/16 13:43	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/21/16 13:43	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/21/16 13:43	1
Chloroethane	1.0	U	10	0.38	ug/L			10/21/16 13:43	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/21/16 13:43	1
Chloromethane	2.0	U	10	0.55	ug/L			10/21/16 13:43	1
cis-1,2-Dichloroethene	3.9	J	5.0	0.16	ug/L			10/21/16 13:43	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/21/16 13:43	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/21/16 13:43	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/21/16 13:43	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/21/16 13:43	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/21/16 13:43	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/21/16 13:43	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/21/16 13:43	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/21/16 13:43	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/21/16 13:43	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/21/16 13:43	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/21/16 13:43	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/21/16 13:43	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/21/16 13:43	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/21/16 13:43	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 13:43	1
Styrene	1.0	U	5.0	0.35	ug/L			10/21/16 13:43	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 13:43	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/21/16 13:43	1
Toluene	1.0	U	5.0	1.0	ug/L			10/21/16 13:43	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/21/16 13:43	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/21/16 13:43	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/21/16 13:43	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/21/16 13:43	1
Vinyl chloride	4.1	J	5.0	0.43	ug/L			10/21/16 13:43	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/21/16 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		81 - 118		10/21/16 13:43	1
4-Bromofluorobenzene (Surr)	111		85 - 114		10/21/16 13:43	1
Dibromofluoromethane (Surr)	102		80 - 119		10/21/16 13:43	1
Toluene-d8 (Surr)	103		89 - 112		10/21/16 13:43	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2302

Lab Sample ID: 280-89533-3

Date Collected: 10/11/16 12:51

Matrix: Water

Date Received: 10/12/16 09:55

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			10/21/16 14:08	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/21/16 14:08	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/21/16 14:08	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/21/16 14:08	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/21/16 14:08	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/21/16 14:08	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/21/16 14:08	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/21/16 14:08	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/21/16 14:08	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/21/16 14:08	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/21/16 14:08	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/21/16 14:08	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/21/16 14:08	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/21/16 14:08	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/21/16 14:08	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/21/16 14:08	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/21/16 14:08	1
2-Butanone (MEK)	15	J	20	0.39	ug/L			10/21/16 14:08	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/21/16 14:08	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/21/16 14:08	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/21/16 14:08	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/21/16 14:08	1
Acetone	16	J	20	6.7	ug/L			10/21/16 14:08	1
Benzene	1.0	U	5.0	0.25	ug/L			10/21/16 14:08	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/21/16 14:08	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/21/16 14:08	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/21/16 14:08	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/21/16 14:08	1
Bromomethane	1.7	J	10	0.40	ug/L			10/21/16 14:08	1
Carbon disulfide	0.46	J	5.0	0.37	ug/L			10/21/16 14:08	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/21/16 14:08	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/21/16 14:08	1
Chloroethane	1.0	U	10	0.38	ug/L			10/21/16 14:08	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/21/16 14:08	1
Chloromethane	2.0	U	10	0.55	ug/L			10/21/16 14:08	1
cis-1,2-Dichloroethene	1.3	J	5.0	0.16	ug/L			10/21/16 14:08	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/21/16 14:08	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/21/16 14:08	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/21/16 14:08	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/21/16 14:08	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/21/16 14:08	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/21/16 14:08	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/21/16 14:08	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/21/16 14:08	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/21/16 14:08	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/21/16 14:08	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/21/16 14:08	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/21/16 14:08	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/21/16 14:08	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2302

Date Collected: 10/11/16 12:51

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-3

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/21/16 14:08	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 14:08	1
Styrene	1.0	U	5.0	0.35	ug/L			10/21/16 14:08	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 14:08	1
Tetrachloroethene	0.31	J	5.0	0.28	ug/L			10/21/16 14:08	1
Toluene	1.0	U	5.0	1.0	ug/L			10/21/16 14:08	1
trans-1,2-Dichloroethene	0.60	J	5.0	0.18	ug/L			10/21/16 14:08	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/21/16 14:08	1
Trichloroethene	0.34	J	5.0	0.29	ug/L			10/21/16 14:08	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/21/16 14:08	1
Vinyl chloride	6.4		5.0	0.43	ug/L			10/21/16 14:08	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/21/16 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/21/16 14:08	1
4-Bromofluorobenzene (Surr)	114		85 - 114		10/21/16 14:08	1
Dibromofluoromethane (Surr)	104		80 - 119		10/21/16 14:08	1
Toluene-d8 (Surr)	103		89 - 112		10/21/16 14:08	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	41		1.0	0.16	mg/L			10/25/16 13:56	1

Client Sample ID: 6MW2202

Date Collected: 10/11/16 11:46

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-4

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			10/21/16 14:34	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/21/16 14:34	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/21/16 14:34	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/21/16 14:34	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/21/16 14:34	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/21/16 14:34	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/21/16 14:34	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/21/16 14:34	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/21/16 14:34	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/21/16 14:34	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/21/16 14:34	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/21/16 14:34	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/21/16 14:34	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/21/16 14:34	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/21/16 14:34	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/21/16 14:34	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/21/16 14:34	1
2-Butanone (MEK)	29		20	0.39	ug/L			10/21/16 14:34	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/21/16 14:34	1
2-Hexanone	8.6	J	20	0.59	ug/L			10/21/16 14:34	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/21/16 14:34	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2202

Lab Sample ID: 280-89533-4

Date Collected: 10/11/16 11:46

Matrix: Water

Date Received: 10/12/16 09:55

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/21/16 14:34	1
Acetone	180		20	6.7	ug/L			10/21/16 14:34	1
Benzene	1.0	U	5.0	0.25	ug/L			10/21/16 14:34	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/21/16 14:34	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/21/16 14:34	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/21/16 14:34	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/21/16 14:34	1
Bromomethane	0.97	J	10	0.40	ug/L			10/21/16 14:34	1
Carbon disulfide	0.60	J	5.0	0.37	ug/L			10/21/16 14:34	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/21/16 14:34	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/21/16 14:34	1
Chloroethane	1.0	U	10	0.38	ug/L			10/21/16 14:34	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/21/16 14:34	1
Chloromethane	2.0	U	10	0.55	ug/L			10/21/16 14:34	1
cis-1,2-Dichloroethene	36		5.0	0.16	ug/L			10/21/16 14:34	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/21/16 14:34	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/21/16 14:34	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/21/16 14:34	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/21/16 14:34	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/21/16 14:34	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/21/16 14:34	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/21/16 14:34	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/21/16 14:34	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/21/16 14:34	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/21/16 14:34	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/21/16 14:34	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/21/16 14:34	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/21/16 14:34	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/21/16 14:34	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 14:34	1
Styrene	1.0	U	5.0	0.35	ug/L			10/21/16 14:34	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 14:34	1
Tetrachloroethene	1.6	J	5.0	0.28	ug/L			10/21/16 14:34	1
Toluene	1.0	U	5.0	1.0	ug/L			10/21/16 14:34	1
trans-1,2-Dichloroethene	0.39	J	5.0	0.18	ug/L			10/21/16 14:34	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/21/16 14:34	1
Trichloroethene	1.2	J	5.0	0.29	ug/L			10/21/16 14:34	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/21/16 14:34	1
Vinyl chloride	9.3		5.0	0.43	ug/L			10/21/16 14:34	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/21/16 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		81 - 118		10/21/16 14:34	1
4-Bromofluorobenzene (Surr)	112		85 - 114		10/21/16 14:34	1
Dibromofluoromethane (Surr)	103		80 - 119		10/21/16 14:34	1
Toluene-d8 (Surr)	104		89 - 112		10/21/16 14:34	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	370		8.0	1.2	mg/L			10/25/16 12:46	8

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2402

Lab Sample ID: 280-89533-5

Date Collected: 10/11/16 10:03

Matrix: Water

Date Received: 10/12/16 09:55

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			10/21/16 14:59	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/21/16 14:59	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/21/16 14:59	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/21/16 14:59	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/21/16 14:59	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/21/16 14:59	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/21/16 14:59	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/21/16 14:59	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/21/16 14:59	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/21/16 14:59	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/21/16 14:59	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/21/16 14:59	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/21/16 14:59	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/21/16 14:59	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/21/16 14:59	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/21/16 14:59	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/21/16 14:59	1
2-Butanone (MEK)	3.9	J	20	0.39	ug/L			10/21/16 14:59	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/21/16 14:59	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/21/16 14:59	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/21/16 14:59	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/21/16 14:59	1
Acetone	10	U	20	6.7	ug/L			10/21/16 14:59	1
Benzene	1.0	U	5.0	0.25	ug/L			10/21/16 14:59	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/21/16 14:59	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/21/16 14:59	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/21/16 14:59	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/21/16 14:59	1
Bromomethane	1.0	J	10	0.40	ug/L			10/21/16 14:59	1
Carbon disulfide	1.3	J	5.0	0.37	ug/L			10/21/16 14:59	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/21/16 14:59	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/21/16 14:59	1
Chloroethane	1.0	U	10	0.38	ug/L			10/21/16 14:59	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/21/16 14:59	1
Chloromethane	2.0	U	10	0.55	ug/L			10/21/16 14:59	1
cis-1,2-Dichloroethene	13		5.0	0.16	ug/L			10/21/16 14:59	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/21/16 14:59	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/21/16 14:59	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/21/16 14:59	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/21/16 14:59	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/21/16 14:59	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/21/16 14:59	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/21/16 14:59	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/21/16 14:59	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/21/16 14:59	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/21/16 14:59	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/21/16 14:59	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/21/16 14:59	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/21/16 14:59	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2402

Date Collected: 10/11/16 10:03

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-5

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/21/16 14:59	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 14:59	1
Styrene	1.0	U	5.0	0.35	ug/L			10/21/16 14:59	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 14:59	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/21/16 14:59	1
Toluene	1.0	U	5.0	1.0	ug/L			10/21/16 14:59	1
trans-1,2-Dichloroethene	0.32	J	5.0	0.18	ug/L			10/21/16 14:59	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/21/16 14:59	1
Trichloroethene	4.9	J	5.0	0.29	ug/L			10/21/16 14:59	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/21/16 14:59	1
Vinyl chloride	4.8	J	5.0	0.43	ug/L			10/21/16 14:59	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/21/16 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		81 - 118		10/21/16 14:59	1
4-Bromofluorobenzene (Surr)	112		85 - 114		10/21/16 14:59	1
Dibromofluoromethane (Surr)	105		80 - 119		10/21/16 14:59	1
Toluene-d8 (Surr)	102		89 - 112		10/21/16 14:59	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	12		1.0	0.16	mg/L			10/25/16 12:05	1

Client Sample ID: 6MW2502

Date Collected: 10/11/16 14:39

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-6

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			10/21/16 15:24	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/21/16 15:24	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/21/16 15:24	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/21/16 15:24	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/21/16 15:24	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/21/16 15:24	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/21/16 15:24	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/21/16 15:24	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/21/16 15:24	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/21/16 15:24	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/21/16 15:24	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/21/16 15:24	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/21/16 15:24	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/21/16 15:24	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/21/16 15:24	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/21/16 15:24	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/21/16 15:24	1
2-Butanone (MEK)	27		20	0.39	ug/L			10/21/16 15:24	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/21/16 15:24	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/21/16 15:24	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/21/16 15:24	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2502

Lab Sample ID: 280-89533-6

Date Collected: 10/11/16 14:39

Matrix: Water

Date Received: 10/12/16 09:55

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/21/16 15:24	1
Acetone	36		20	6.7	ug/L			10/21/16 15:24	1
Benzene	1.0	U	5.0	0.25	ug/L			10/21/16 15:24	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/21/16 15:24	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/21/16 15:24	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/21/16 15:24	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/21/16 15:24	1
Bromomethane	1.1 J		10	0.40	ug/L			10/21/16 15:24	1
Carbon disulfide	1.5 J		5.0	0.37	ug/L			10/21/16 15:24	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/21/16 15:24	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/21/16 15:24	1
Chloroethane	1.0	U	10	0.38	ug/L			10/21/16 15:24	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/21/16 15:24	1
Chloromethane	2.0	U	10	0.55	ug/L			10/21/16 15:24	1
cis-1,2-Dichloroethene	0.70 J		5.0	0.16	ug/L			10/21/16 15:24	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/21/16 15:24	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/21/16 15:24	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/21/16 15:24	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/21/16 15:24	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/21/16 15:24	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/21/16 15:24	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/21/16 15:24	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/21/16 15:24	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/21/16 15:24	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/21/16 15:24	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/21/16 15:24	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/21/16 15:24	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/21/16 15:24	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/21/16 15:24	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 15:24	1
Styrene	1.0	U	5.0	0.35	ug/L			10/21/16 15:24	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 15:24	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/21/16 15:24	1
Toluene	1.0	U	5.0	1.0	ug/L			10/21/16 15:24	1
trans-1,2-Dichloroethene	1.7 J		5.0	0.18	ug/L			10/21/16 15:24	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/21/16 15:24	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/21/16 15:24	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/21/16 15:24	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			10/21/16 15:24	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/21/16 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		81 - 118		10/21/16 15:24	1
4-Bromofluorobenzene (Surr)	111		85 - 114		10/21/16 15:24	1
Dibromofluoromethane (Surr)	107		80 - 119		10/21/16 15:24	1
Toluene-d8 (Surr)	105		89 - 112		10/21/16 15:24	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	110		3.3	0.52	mg/L			10/25/16 12:23	3.33

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2602

Lab Sample ID: 280-89533-7

Date Collected: 10/11/16 13:39

Matrix: Water

Date Received: 10/12/16 09:55

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			10/21/16 15:49	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/21/16 15:49	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/21/16 15:49	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/21/16 15:49	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/21/16 15:49	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/21/16 15:49	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/21/16 15:49	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/21/16 15:49	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/21/16 15:49	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/21/16 15:49	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/21/16 15:49	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/21/16 15:49	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/21/16 15:49	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/21/16 15:49	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/21/16 15:49	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/21/16 15:49	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/21/16 15:49	1
2-Butanone (MEK)	27		20	0.39	ug/L			10/21/16 15:49	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/21/16 15:49	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/21/16 15:49	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/21/16 15:49	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/21/16 15:49	1
Acetone	58		20	6.7	ug/L			10/21/16 15:49	1
Benzene	1.0	U	5.0	0.25	ug/L			10/21/16 15:49	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/21/16 15:49	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/21/16 15:49	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/21/16 15:49	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/21/16 15:49	1
Bromomethane	0.70	J	10	0.40	ug/L			10/21/16 15:49	1
Carbon disulfide	1.0	J	5.0	0.37	ug/L			10/21/16 15:49	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/21/16 15:49	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/21/16 15:49	1
Chloroethane	1.0	U	10	0.38	ug/L			10/21/16 15:49	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/21/16 15:49	1
Chloromethane	2.0	U	10	0.55	ug/L			10/21/16 15:49	1
cis-1,2-Dichloroethene	2.6	J	5.0	0.16	ug/L			10/21/16 15:49	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/21/16 15:49	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/21/16 15:49	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/21/16 15:49	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/21/16 15:49	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/21/16 15:49	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/21/16 15:49	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/21/16 15:49	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/21/16 15:49	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/21/16 15:49	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/21/16 15:49	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/21/16 15:49	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/21/16 15:49	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/21/16 15:49	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2602

Date Collected: 10/11/16 13:39

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-7

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/21/16 15:49	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 15:49	1
Styrene	1.0	U	5.0	0.35	ug/L			10/21/16 15:49	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 15:49	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/21/16 15:49	1
Toluene	1.0	U	5.0	1.0	ug/L			10/21/16 15:49	1
trans-1,2-Dichloroethene	0.29	J	5.0	0.18	ug/L			10/21/16 15:49	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/21/16 15:49	1
Trichloroethene	0.32	J	5.0	0.29	ug/L			10/21/16 15:49	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/21/16 15:49	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			10/21/16 15:49	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/21/16 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		81 - 118		10/21/16 15:49	1
4-Bromofluorobenzene (Surr)	110		85 - 114		10/21/16 15:49	1
Dibromofluoromethane (Surr)	107		80 - 119		10/21/16 15:49	1
Toluene-d8 (Surr)	103		89 - 112		10/21/16 15:49	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	70		1.8	0.28	mg/L			10/25/16 11:50	1.79

Client Sample ID: TB03

Date Collected: 10/11/16 08:00

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-8

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			10/21/16 16:14	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/21/16 16:14	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/21/16 16:14	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/21/16 16:14	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/21/16 16:14	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/21/16 16:14	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/21/16 16:14	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/21/16 16:14	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/21/16 16:14	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/21/16 16:14	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/21/16 16:14	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/21/16 16:14	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/21/16 16:14	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/21/16 16:14	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/21/16 16:14	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/21/16 16:14	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/21/16 16:14	1
2-Butanone (MEK)	5.6	J	20	0.39	ug/L			10/21/16 16:14	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/21/16 16:14	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/21/16 16:14	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/21/16 16:14	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: TB03

Lab Sample ID: 280-89533-8

Date Collected: 10/11/16 08:00

Matrix: Water

Date Received: 10/12/16 09:55

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/21/16 16:14	1
Acetone	10	U	20	6.7	ug/L			10/21/16 16:14	1
Benzene	1.0	U	5.0	0.25	ug/L			10/21/16 16:14	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/21/16 16:14	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/21/16 16:14	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/21/16 16:14	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/21/16 16:14	1
Bromomethane	2.0	U	10	0.40	ug/L			10/21/16 16:14	1
Carbon disulfide	0.71	J	5.0	0.37	ug/L			10/21/16 16:14	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/21/16 16:14	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/21/16 16:14	1
Chloroethane	1.0	U	10	0.38	ug/L			10/21/16 16:14	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/21/16 16:14	1
Chloromethane	2.0	U	10	0.55	ug/L			10/21/16 16:14	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			10/21/16 16:14	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/21/16 16:14	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/21/16 16:14	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/21/16 16:14	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/21/16 16:14	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/21/16 16:14	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/21/16 16:14	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/21/16 16:14	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/21/16 16:14	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/21/16 16:14	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/21/16 16:14	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/21/16 16:14	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/21/16 16:14	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/21/16 16:14	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/21/16 16:14	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 16:14	1
Styrene	1.0	U	5.0	0.35	ug/L			10/21/16 16:14	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 16:14	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/21/16 16:14	1
Toluene	1.0	U	5.0	1.0	ug/L			10/21/16 16:14	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/21/16 16:14	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/21/16 16:14	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/21/16 16:14	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/21/16 16:14	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			10/21/16 16:14	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/21/16 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		81 - 118		10/21/16 16:14	1
4-Bromofluorobenzene (Surr)	110		85 - 114		10/21/16 16:14	1
Dibromofluoromethane (Surr)	106		80 - 119		10/21/16 16:14	1
Toluene-d8 (Surr)	103		89 - 112		10/21/16 16:14	1

TestAmerica Denver

Default Detection Limits

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

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

Analyte	LOQ	DL	Units	Method
1,1,1,2-Tetrachloroethane	5.0	0.25	ug/L	8260C DOD
1,1,1-Trichloroethane	5.0	0.29	ug/L	8260C DOD
1,1,2,2-Tetrachloroethane	5.0	0.43	ug/L	8260C DOD
1,1,2-Trichloroethane	5.0	0.57	ug/L	8260C DOD
1,1-Dichloroethane	5.0	0.39	ug/L	8260C DOD
1,1-Dichloroethene	5.0	0.37	ug/L	8260C DOD
1,1-Dichloropropene	5.0	0.30	ug/L	8260C DOD
1,2,3-Trichlorobenzene	5.0	0.65	ug/L	8260C DOD
1,2,3-Trichloropropane	5.0	0.56	ug/L	8260C DOD
1,2,4-Trimethylbenzene	5.0	0.40	ug/L	8260C DOD
1,2-Dibromo-3-Chloropropane	10	1.2	ug/L	8260C DOD
1,2-Dibromoethane	5.0	0.44	ug/L	8260C DOD
1,2-Dichloroethane	5.0	0.37	ug/L	8260C DOD
1,2-Dichloropropane	5.0	0.32	ug/L	8260C DOD
1,3,5-Trimethylbenzene	5.0	0.28	ug/L	8260C DOD
1,3-Dichloropropane	5.0	0.24	ug/L	8260C DOD
2,2-Dichloropropane	5.0	0.54	ug/L	8260C DOD
2-Butanone (MEK)	20	0.39	ug/L	8260C DOD
2-Chlorotoluene	5.0	0.34	ug/L	8260C DOD
2-Hexanone	20	0.59	ug/L	8260C DOD
4-Chlorotoluene	5.0	0.31	ug/L	8260C DOD
4-Methyl-2-pentanone (MIBK)	20	0.33	ug/L	8260C DOD
Acetone	20	6.7	ug/L	8260C DOD
Benzene	5.0	0.25	ug/L	8260C DOD
Bromobenzene	5.0	0.33	ug/L	8260C DOD
Bromochloromethane	5.0	0.55	ug/L	8260C DOD
Bromodichloromethane	5.0	0.25	ug/L	8260C DOD
Bromoform	5.0	0.37	ug/L	8260C DOD
Bromomethane	10	0.40	ug/L	8260C DOD
Carbon disulfide	5.0	0.37	ug/L	8260C DOD
Carbon tetrachloride	5.0	0.36	ug/L	8260C DOD
Chlorobenzene	5.0	0.38	ug/L	8260C DOD
Chloroethane	10	0.38	ug/L	8260C DOD
Chloroform	5.0	0.15	ug/L	8260C DOD
Chloromethane	10	0.55	ug/L	8260C DOD
cis-1,2-Dichloroethene	5.0	0.16	ug/L	8260C DOD
cis-1,3-Dichloropropene	5.0	0.34	ug/L	8260C DOD
Dibromochloromethane	5.0	0.33	ug/L	8260C DOD
Dibromomethane	5.0	0.41	ug/L	8260C DOD
Dichlorodifluoromethane	10	0.45	ug/L	8260C DOD
Ethylbenzene	5.0	0.30	ug/L	8260C DOD
Isopropylbenzene	5.0	0.26	ug/L	8260C DOD
m,p-Xylenes	5.0	0.57	ug/L	8260C DOD
Methyl tert-butyl ether	5.0	0.40	ug/L	8260C DOD
Methylene Chloride	7.5	1.7	ug/L	8260C DOD
Naphthalene	5.0	0.85	ug/L	8260C DOD
n-Butylbenzene	5.0	0.23	ug/L	8260C DOD
N-Propylbenzene	5.0	0.30	ug/L	8260C DOD
o-Xylene	5.0	0.32	ug/L	8260C DOD
p-Isopropyltoluene	5.0	0.32	ug/L	8260C DOD
sec-Butylbenzene	5.0	0.31	ug/L	8260C DOD
Styrene	5.0	0.35	ug/L	8260C DOD

Default Detection Limits

Client: Leidos, Inc.

TestAmerica Job ID: 280-89533-1

Project/Site: Schenectady ANGB, NY

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

Analyte	LOQ	DL	Units	Method
tert-Butylbenzene	5.0	0.31	ug/L	8260C DOD
Tetrachloroethene	5.0	0.28	ug/L	8260C DOD
Toluene	5.0	1.0	ug/L	8260C DOD
trans-1,2-Dichloroethene	5.0	0.18	ug/L	8260C DOD
trans-1,3-Dichloropropene	5.0	0.35	ug/L	8260C DOD
Trichloroethene	5.0	0.29	ug/L	8260C DOD
Trichlorofluoromethane	5.0	0.22	ug/L	8260C DOD
Vinyl chloride	5.0	0.43	ug/L	8260C DOD
Xylenes (total)	10	0.85	ug/L	8260C DOD

General Chemistry

Analyte	LOQ	DL	Units	Method
Total Organic Carbon - Quad	1.0	0.16	mg/L	9060A

Surrogate Summary

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
280-89533-1	6MW2002	102	110	105	106
280-89533-1 MS	6MW2002MS	102	104	105	104
280-89533-1 MSD	6MW2002MSD	100	106	104	103
280-89533-2	6MW2002D	98	111	102	103
280-89533-3	6MW2302	101	114	104	103
280-89533-4	6MW2202	99	112	103	104
280-89533-5	6MW2402	105	112	105	102
280-89533-6	6MW2502	106	111	107	105
280-89533-7	6MW2602	106	110	107	103
280-89533-8	TB03	104	110	106	103
LCS 160-275504/5	Lab Control Sample	103	102	100	102
LCSD 160-275504/6	Lab Control Sample Dup	99	105	99	105
MB 160-275504/8	Method Blank	101	110	100	108

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

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

Lab Sample ID: MB 160-275504/8

Matrix: Water

Analysis Batch: 275504

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			10/21/16 11:38	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/21/16 11:38	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/21/16 11:38	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/21/16 11:38	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/21/16 11:38	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/21/16 11:38	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/21/16 11:38	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/21/16 11:38	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/21/16 11:38	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/21/16 11:38	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/21/16 11:38	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/21/16 11:38	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/21/16 11:38	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/21/16 11:38	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/21/16 11:38	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/21/16 11:38	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/21/16 11:38	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/21/16 11:38	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/21/16 11:38	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/21/16 11:38	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/21/16 11:38	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/21/16 11:38	1
Acetone	10	U	20	6.7	ug/L			10/21/16 11:38	1
Benzene	1.0	U	5.0	0.25	ug/L			10/21/16 11:38	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/21/16 11:38	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/21/16 11:38	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/21/16 11:38	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/21/16 11:38	1
Bromomethane	2.0	U	10	0.40	ug/L			10/21/16 11:38	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/21/16 11:38	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/21/16 11:38	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/21/16 11:38	1
Chloroethane	1.0	U	10	0.38	ug/L			10/21/16 11:38	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/21/16 11:38	1
Chloromethane	2.0	U	10	0.55	ug/L			10/21/16 11:38	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			10/21/16 11:38	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/21/16 11:38	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/21/16 11:38	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/21/16 11:38	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/21/16 11:38	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/21/16 11:38	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/21/16 11:38	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/21/16 11:38	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/21/16 11:38	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/21/16 11:38	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/21/16 11:38	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/21/16 11:38	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/21/16 11:38	1

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

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

Lab Sample ID: MB 160-275504/8

Matrix: Water

Analysis Batch: 275504

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	1.0	U	5.0	0.32	ug/L			10/21/16 11:38	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/21/16 11:38	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 11:38	1
Styrene	1.0	U	5.0	0.35	ug/L			10/21/16 11:38	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/21/16 11:38	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/21/16 11:38	1
Toluene	1.0	U	5.0	1.0	ug/L			10/21/16 11:38	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/21/16 11:38	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/21/16 11:38	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/21/16 11:38	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/21/16 11:38	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			10/21/16 11:38	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/21/16 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		81 - 118		10/21/16 11:38	1
4-Bromofluorobenzene (Surr)	110		85 - 114		10/21/16 11:38	1
Dibromofluoromethane (Surr)	100		80 - 119		10/21/16 11:38	1
Toluene-d8 (Surr)	108		89 - 112		10/21/16 11:38	1

Lab Sample ID: LCS 160-275504/5

Matrix: Water

Analysis Batch: 275504

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	48.0		ug/L		96	78 - 124
1,1,1-Trichloroethane	50.0	48.8		ug/L		98	74 - 131
1,1,2,2-Tetrachloroethane	50.0	47.9		ug/L		96	71 - 121
1,1,2-Trichloroethane	50.0	49.2		ug/L		98	80 - 119
1,1-Dichloroethane	50.0	47.9		ug/L		96	77 - 125
1,1-Dichloroethene	50.0	48.9		ug/L		98	71 - 131
1,1-Dichloropropene	50.0	50.3		ug/L		101	79 - 125
1,2,3-Trichlorobenzene	50.0	49.4		ug/L		99	69 - 129
1,2,3-Trichloropropane	50.0	49.6		ug/L		99	73 - 122
1,2,4-Trimethylbenzene	50.0	51.4		ug/L		103	76 - 124
1,2-Dibromo-3-Chloropropane	50.0	52.6		ug/L		105	62 - 128
1,2-Dibromoethane	50.0	49.9		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	51.2		ug/L		102	73 - 128
1,2-Dichloropropane	50.0	49.2		ug/L		98	78 - 122
1,3,5-Trimethylbenzene	50.0	52.6		ug/L		105	75 - 124
1,3-Dichloropropane	50.0	49.5		ug/L		99	80 - 119
2,2-Dichloropropane	50.0	50.0		ug/L		100	60 - 139
2-Butanone (MEK)	50.0	46.3		ug/L		93	56 - 143
2-Chlorotoluene	50.0	49.4		ug/L		99	79 - 122
2-Hexanone	50.0	48.7		ug/L		97	57 - 139
4-Chlorotoluene	50.0	50.7		ug/L		101	78 - 122
4-Methyl-2-pentanone (MIBK)	50.0	52.9		ug/L		106	67 - 130
Acetone	50.0	49.6		ug/L		99	39 - 160

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

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

Lab Sample ID: LCS 160-275504/5

Matrix: Water

Analysis Batch: 275504

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.7		ug/L		97	79 - 120
Bromobenzene	50.0	48.3		ug/L		97	80 - 120
Bromochloromethane	50.0	49.5		ug/L		99	78 - 123
Bromodichloromethane	50.0	49.7		ug/L		99	79 - 125
Bromoform	50.0	49.0		ug/L		98	66 - 130
Bromomethane	50.0	53.3		ug/L		107	53 - 141
Carbon disulfide	50.0	48.5		ug/L		97	64 - 133
Carbon tetrachloride	50.0	48.5		ug/L		97	72 - 136
Chlorobenzene	50.0	47.9		ug/L		96	82 - 118
Chloroethane	50.0	52.9		ug/L		106	60 - 138
Chloroform	50.0	48.5		ug/L		97	79 - 124
Chloromethane	50.0	49.3		ug/L		99	50 - 139
cis-1,2-Dichloroethene	50.0	49.1		ug/L		98	78 - 123
cis-1,3-Dichloropropene	50.0	52.2		ug/L		104	75 - 124
Dibromochloromethane	50.0	49.9		ug/L		100	74 - 126
Dibromomethane	50.0	49.5		ug/L		99	79 - 123
Dichlorodifluoromethane	50.0	59.0		ug/L		118	32 - 152
Ethylbenzene	50.0	49.3		ug/L		99	79 - 121
Isopropylbenzene	50.0	51.7		ug/L		103	72 - 131
m,p-Xylenes	50.0	51.0		ug/L		102	80 - 121
Methyl tert-butyl ether	50.0	52.4		ug/L		105	71 - 124
Methylene Chloride	50.0	48.0		ug/L		96	74 - 124
Naphthalene	50.0	49.3		ug/L		99	61 - 128
n-Butylbenzene	50.0	52.8		ug/L		106	75 - 128
N-Propylbenzene	50.0	52.5		ug/L		105	76 - 126
o-Xylene	50.0	52.4		ug/L		105	78 - 122
p-Isopropyltoluene	50.0	52.5		ug/L		105	77 - 127
sec-Butylbenzene	50.0	51.7		ug/L		103	77 - 126
Styrene	50.0	53.0		ug/L		106	78 - 123
tert-Butylbenzene	50.0	51.8		ug/L		104	78 - 124
Tetrachloroethene	50.0	48.4		ug/L		97	74 - 129
Toluene	50.0	49.4		ug/L		99	80 - 121
trans-1,2-Dichloroethene	50.0	48.8		ug/L		98	75 - 124
trans-1,3-Dichloropropene	50.0	51.9		ug/L		104	73 - 127
Trichloroethene	50.0	48.8		ug/L		98	79 - 123
Trichlorofluoromethane	50.0	49.5		ug/L		99	65 - 141
Vinyl chloride	50.0	49.7		ug/L		99	58 - 137
Xylenes (total)	100	103		ug/L		103	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		81 - 118
4-Bromofluorobenzene (Surr)	102		85 - 114
Dibromofluoromethane (Surr)	100		80 - 119
Toluene-d8 (Surr)	102		89 - 112

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

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

Lab Sample ID: LCSD 160-275504/6

Matrix: Water

Analysis Batch: 275504

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	49.1		ug/L		98	78 - 124	2	20
1,1,1-Trichloroethane	50.0	48.7		ug/L		97	74 - 131	0	20
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/L		96	71 - 121	0	20
1,1,2-Trichloroethane	50.0	49.1		ug/L		98	80 - 119	0	20
1,1-Dichloroethane	50.0	48.3		ug/L		97	77 - 125	1	20
1,1-Dichloroethene	50.0	49.5		ug/L		99	71 - 131	1	20
1,1-Dichloropropene	50.0	51.3		ug/L		103	79 - 125	2	20
1,2,3-Trichlorobenzene	50.0	46.0		ug/L		92	69 - 129	7	20
1,2,3-Trichloropropane	50.0	48.5		ug/L		97	73 - 122	2	20
1,2,4-Trimethylbenzene	50.0	52.7		ug/L		105	76 - 124	3	20
1,2-Dibromo-3-Chloropropane	50.0	50.1		ug/L		100	62 - 128	5	20
1,2-Dibromoethane	50.0	50.1		ug/L		100	80 - 120	0	20
1,2-Dichloroethane	50.0	49.4		ug/L		99	73 - 128	4	20
1,2-Dichloropropane	50.0	49.5		ug/L		99	78 - 122	1	20
1,3,5-Trimethylbenzene	50.0	54.4		ug/L		109	75 - 124	3	20
1,3-Dichloropropane	50.0	50.4		ug/L		101	80 - 119	2	20
2,2-Dichloropropane	50.0	49.7		ug/L		99	60 - 139	1	20
2-Butanone (MEK)	50.0	45.9		ug/L		92	56 - 143	1	20
2-Chlorotoluene	50.0	50.7		ug/L		101	79 - 122	3	20
2-Hexanone	50.0	50.2		ug/L		100	57 - 139	3	20
4-Chlorotoluene	50.0	52.3		ug/L		105	78 - 122	3	20
4-Methyl-2-pentanone (MIBK)	50.0	52.8		ug/L		106	67 - 130	0	20
Acetone	50.0	47.6		ug/L		95	39 - 160	4	20
Benzene	50.0	48.9		ug/L		98	79 - 120	0	20
Bromobenzene	50.0	49.2		ug/L		98	80 - 120	2	20
Bromochloromethane	50.0	48.4		ug/L		97	78 - 123	2	20
Bromodichloromethane	50.0	49.2		ug/L		98	79 - 125	1	20
Bromoform	50.0	48.9		ug/L		98	66 - 130	0	20
Bromomethane	50.0	48.7		ug/L		97	53 - 141	9	20
Carbon disulfide	50.0	49.1		ug/L		98	64 - 133	1	20
Carbon tetrachloride	50.0	48.3		ug/L		97	72 - 136	0	20
Chlorobenzene	50.0	48.5		ug/L		97	82 - 118	1	20
Chloroethane	50.0	51.4		ug/L		103	60 - 138	3	20
Chloroform	50.0	48.3		ug/L		97	79 - 124	0	20
Chloromethane	50.0	49.6		ug/L		99	50 - 139	1	20
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	78 - 123	2	20
cis-1,3-Dichloropropene	50.0	52.1		ug/L		104	75 - 124	0	20
Dibromochloromethane	50.0	50.3		ug/L		101	74 - 126	1	20
Dibromomethane	50.0	49.1		ug/L		98	79 - 123	1	20
Dichlorodifluoromethane	50.0	58.5		ug/L		117	32 - 152	1	20
Ethylbenzene	50.0	50.7		ug/L		101	79 - 121	3	20
Isopropylbenzene	50.0	53.8		ug/L		108	72 - 131	4	20
m,p-Xylenes	50.0	52.6		ug/L		105	80 - 121	3	20
Methyl tert-butyl ether	50.0	51.7		ug/L		103	71 - 124	1	20
Methylene Chloride	50.0	47.8		ug/L		96	74 - 124	0	20
Naphthalene	50.0	47.1		ug/L		94	61 - 128	4	20
n-Butylbenzene	50.0	53.8		ug/L		108	75 - 128	2	20
N-Propylbenzene	50.0	54.2		ug/L		108	76 - 126	3	20

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

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

Lab Sample ID: LCSD 160-275504/6

Matrix: Water

Analysis Batch: 275504

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	50.0	54.1		ug/L		108	78 - 122	3	20
p-Isopropyltoluene	50.0	54.4		ug/L		109	77 - 127	4	20
sec-Butylbenzene	50.0	53.6		ug/L		107	77 - 126	4	20
Styrene	50.0	54.3		ug/L		109	78 - 123	2	20
tert-Butylbenzene	50.0	53.4		ug/L		107	78 - 124	3	20
Tetrachloroethene	50.0	51.1		ug/L		102	74 - 129	5	20
Toluene	50.0	51.6		ug/L		103	80 - 121	4	20
trans-1,2-Dichloroethene	50.0	49.2		ug/L		98	75 - 124	1	20
trans-1,3-Dichloropropene	50.0	52.7		ug/L		105	73 - 127	2	20
Trichloroethene	50.0	48.8		ug/L		98	79 - 123	0	20
Trichlorofluoromethane	50.0	48.9		ug/L		98	65 - 141	1	20
Vinyl chloride	50.0	49.5		ug/L		99	58 - 137	0	20
Xylenes (total)	100	107		ug/L		107	79 - 121	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		81 - 118
4-Bromofluorobenzene (Surr)	105		85 - 114
Dibromofluoromethane (Surr)	99		80 - 119
Toluene-d8 (Surr)	105		89 - 112

Lab Sample ID: 280-89533-1 MS

Matrix: Water

Analysis Batch: 275504

Client Sample ID: 6MW2002MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2.0	U	50.0	48.9		ug/L		98	78 - 124
1,1,1-Trichloroethane	1.0	U	50.0	48.8		ug/L		98	74 - 131
1,1,2,2-Tetrachloroethane	2.0	U	50.0	47.1		ug/L		94	71 - 121
1,1,2-Trichloroethane	1.0	U	50.0	49.2		ug/L		98	80 - 119
1,1-Dichloroethane	1.0	U	50.0	48.2		ug/L		96	77 - 125
1,1-Dichloroethene	1.0	U	50.0	48.8		ug/L		98	71 - 131
1,1-Dichloropropene	1.0	U	50.0	51.3		ug/L		103	79 - 125
1,2,3-Trichlorobenzene	2.0	U	50.0	45.4		ug/L		91	69 - 129
1,2,3-Trichloropropane	1.0	U	50.0	48.7		ug/L		97	73 - 122
1,2,4-Trimethylbenzene	2.0	U	50.0	52.3		ug/L		105	76 - 124
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	51.8		ug/L		104	62 - 128
1,2-Dibromoethane	2.0	U	50.0	50.5		ug/L		101	80 - 120
1,2-Dichloroethane	1.0	U	50.0	50.2		ug/L		100	73 - 128
1,2-Dichloropropane	1.0	U	50.0	50.2		ug/L		100	78 - 122
1,3,5-Trimethylbenzene	2.0	U	50.0	53.6		ug/L		107	75 - 124
1,3-Dichloropropane	1.0	U	50.0	49.9		ug/L		100	80 - 119
2,2-Dichloropropane	2.0	U	50.0	50.1		ug/L		100	60 - 139
2-Butanone (MEK)	4.3	J	50.0	46.7		ug/L		85	56 - 143
2-Chlorotoluene	2.0	U	50.0	49.7		ug/L		99	79 - 122
2-Hexanone	2.0	U	50.0	49.7		ug/L		99	57 - 139
4-Chlorotoluene	2.0	U	50.0	51.6		ug/L		103	78 - 122
4-Methyl-2-pentanone (MIBK)	2.0	U	50.0	52.8		ug/L		106	67 - 130
Acetone	10	U	50.0	45.7		ug/L		91	39 - 160

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

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

Lab Sample ID: 280-89533-1 MS

Matrix: Water

Analysis Batch: 275504

Client Sample ID: 6MW2002MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	1.0	U	50.0	48.7		ug/L		97	79 - 120
Bromobenzene	2.0	U	50.0	48.7		ug/L		97	80 - 120
Bromochloromethane	2.0	U	50.0	49.8		ug/L		100	78 - 123
Bromodichloromethane	2.0	U	50.0	50.1		ug/L		100	79 - 125
Bromoform	1.0	U	50.0	48.9		ug/L		98	66 - 130
Bromomethane	1.1	J	50.0	31.6		ug/L		61	53 - 141
Carbon disulfide	0.86	J	50.0	48.7		ug/L		96	64 - 133
Carbon tetrachloride	1.0	U	50.0	49.1		ug/L		98	72 - 136
Chlorobenzene	1.0	U	50.0	48.8		ug/L		98	82 - 118
Chloroethane	1.0	U	50.0	48.6		ug/L		97	60 - 138
Chloroform	1.0	U	50.0	48.9		ug/L		98	79 - 124
Chloromethane	2.0	U	50.0	43.4		ug/L		87	50 - 139
cis-1,2-Dichloroethene	4.4	J	50.0	54.2		ug/L		100	78 - 123
cis-1,3-Dichloropropene	1.0	U	50.0	51.1		ug/L		102	75 - 124
Dibromochloromethane	1.0	U	50.0	50.1		ug/L		100	74 - 126
Dibromomethane	2.0	U	50.0	49.8		ug/L		100	79 - 123
Dichlorodifluoromethane	2.0	U	50.0	58.2		ug/L		116	32 - 152
Ethylbenzene	1.0	U	50.0	50.5		ug/L		101	79 - 121
Isopropylbenzene	2.0	U	50.0	52.6		ug/L		105	72 - 131
m,p-Xylenes	1.0	U	50.0	52.2		ug/L		104	80 - 121
Methyl tert-butyl ether	2.0	U	50.0	52.1		ug/L		104	71 - 124
Methylene Chloride	5.0	U	50.0	47.5		ug/L		95	74 - 124
Naphthalene	2.0	U	50.0	47.1		ug/L		94	61 - 128
n-Butylbenzene	2.0	U	50.0	53.4		ug/L		107	75 - 128
N-Propylbenzene	2.0	U	50.0	52.9		ug/L		106	76 - 126
o-Xylene	1.0	U	50.0	54.0		ug/L		108	78 - 122
p-Isopropyltoluene	2.0	U	50.0	53.8		ug/L		108	77 - 127
sec-Butylbenzene	2.0	U	50.0	52.6		ug/L		105	77 - 126
Styrene	1.0	U	50.0	54.1		ug/L		108	78 - 123
tert-Butylbenzene	2.0	U	50.0	52.5		ug/L		105	78 - 124
Tetrachloroethene	1.0	U	50.0	49.6		ug/L		99	74 - 129
Toluene	1.0	U	50.0	50.6		ug/L		101	80 - 121
trans-1,2-Dichloroethene	1.0	U	50.0	49.3		ug/L		99	75 - 124
trans-1,3-Dichloropropene	1.0	U	50.0	53.0		ug/L		106	73 - 127
Trichloroethene	1.0	U	50.0	49.3		ug/L		99	79 - 123
Trichlorofluoromethane	2.0	U	50.0	48.8		ug/L		98	65 - 141
Vinyl chloride	3.6	J	50.0	50.8		ug/L		94	58 - 137
Xylenes (total)	5.0	U	100	106		ug/L		106	79 - 121

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		81 - 118
4-Bromofluorobenzene (Surr)	104		85 - 114
Dibromofluoromethane (Surr)	105		80 - 119
Toluene-d8 (Surr)	104		89 - 112

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

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

Lab Sample ID: 280-89533-1 MSD

Matrix: Water

Analysis Batch: 275504

Client Sample ID: 6MW2002MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	2.0	U	50.0	48.3		ug/L		97	78 - 124	1	20
1,1,1-Trichloroethane	1.0	U	50.0	47.2		ug/L		94	74 - 131	3	20
1,1,2,2-Tetrachloroethane	2.0	U	50.0	47.5		ug/L		95	71 - 121	1	20
1,1,2-Trichloroethane	1.0	U	50.0	48.5		ug/L		97	80 - 119	1	20
1,1-Dichloroethane	1.0	U	50.0	46.8		ug/L		94	77 - 125	3	20
1,1-Dichloroethene	1.0	U	50.0	47.6		ug/L		95	71 - 131	3	20
1,1-Dichloropropene	1.0	U	50.0	49.5		ug/L		99	79 - 125	4	20
1,2,3-Trichlorobenzene	2.0	U	50.0	49.0		ug/L		98	69 - 129	8	20
1,2,3-Trichloropropane	1.0	U	50.0	48.6		ug/L		97	73 - 122	0	20
1,2,4-Trimethylbenzene	2.0	U	50.0	50.8		ug/L		102	76 - 124	3	20
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	52.3		ug/L		105	62 - 128	1	20
1,2-Dibromoethane	2.0	U	50.0	50.2		ug/L		100	80 - 120	1	20
1,2-Dichloroethane	1.0	U	50.0	48.5		ug/L		97	73 - 128	3	20
1,2-Dichloropropane	1.0	U	50.0	49.4		ug/L		99	78 - 122	2	20
1,3,5-Trimethylbenzene	2.0	U	50.0	52.4		ug/L		105	75 - 124	2	20
1,3-Dichloropropane	1.0	U	50.0	49.9		ug/L		100	80 - 119	0	20
2,2-Dichloropropane	2.0	U	50.0	48.2		ug/L		96	60 - 139	4	20
2-Butanone (MEK)	4.3	J	50.0	47.7		ug/L		87	56 - 143	2	20
2-Chlorotoluene	2.0	U	50.0	48.8		ug/L		98	79 - 122	2	20
2-Hexanone	2.0	U	50.0	50.5		ug/L		101	57 - 139	1	20
4-Chlorotoluene	2.0	U	50.0	50.5		ug/L		101	78 - 122	2	20
4-Methyl-2-pentanone (MIBK)	2.0	U	50.0	53.7		ug/L		107	67 - 130	2	20
Acetone	10	U	50.0	47.3		ug/L		95	39 - 160	4	20
Benzene	1.0	U	50.0	47.5		ug/L		95	79 - 120	3	20
Bromobenzene	2.0	U	50.0	48.4		ug/L		97	80 - 120	1	20
Bromochloromethane	2.0	U	50.0	49.8		ug/L		100	78 - 123	0	20
Bromodichloromethane	2.0	U	50.0	49.3		ug/L		99	79 - 125	2	20
Bromoform	1.0	U	50.0	49.6		ug/L		99	66 - 130	1	20
Bromomethane	1.1	J	50.0	29.1		ug/L		56	53 - 141	8	20
Carbon disulfide	0.86	J	50.0	47.7		ug/L		94	64 - 133	2	20
Carbon tetrachloride	1.0	U	50.0	46.8		ug/L		94	72 - 136	5	20
Chlorobenzene	1.0	U	50.0	47.4		ug/L		95	82 - 118	3	20
Chloroethane	1.0	U	50.0	46.1		ug/L		92	60 - 138	5	20
Chloroform	1.0	U	50.0	47.0		ug/L		94	79 - 124	4	20
Chloromethane	2.0	U	50.0	44.0		ug/L		88	50 - 139	2	20
cis-1,2-Dichloroethene	4.4	J	50.0	53.6		ug/L		98	78 - 123	1	20
cis-1,3-Dichloropropene	1.0	U	50.0	51.3		ug/L		103	75 - 124	0	20
Dibromochloromethane	1.0	U	50.0	49.8		ug/L		100	74 - 126	1	20
Dibromomethane	2.0	U	50.0	49.8		ug/L		100	79 - 123	0	20
Dichlorodifluoromethane	2.0	U	50.0	56.6		ug/L		113	32 - 152	3	20
Ethylbenzene	1.0	U	50.0	48.4		ug/L		97	79 - 121	4	20
Isopropylbenzene	2.0	U	50.0	51.6		ug/L		103	72 - 131	2	20
m,p-Xylenes	1.0	U	50.0	50.5		ug/L		101	80 - 121	3	20
Methyl tert-butyl ether	2.0	U	50.0	52.2		ug/L		104	71 - 124	0	20
Methylene Chloride	5.0	U	50.0	47.0		ug/L		94	74 - 124	1	20
Naphthalene	2.0	U	50.0	50.0		ug/L		100	61 - 128	6	20
n-Butylbenzene	2.0	U	50.0	52.3		ug/L		105	75 - 128	2	20
N-Propylbenzene	2.0	U	50.0	52.0		ug/L		104	76 - 126	2	20

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

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

Lab Sample ID: 280-89533-1 MSD

Matrix: Water

Analysis Batch: 275504

Client Sample ID: 6MW2002MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	1.0	U	50.0	53.1		ug/L		106	78 - 122	2	20
p-Isopropyltoluene	2.0	U	50.0	52.1		ug/L		104	77 - 127	3	20
sec-Butylbenzene	2.0	U	50.0	50.8		ug/L		102	77 - 126	3	20
Styrene	1.0	U	50.0	53.0		ug/L		106	78 - 123	2	20
tert-Butylbenzene	2.0	U	50.0	51.5		ug/L		103	78 - 124	2	20
Tetrachloroethene	1.0	U	50.0	47.7		ug/L		95	74 - 129	4	20
Toluene	1.0	U	50.0	49.0		ug/L		98	80 - 121	3	20
trans-1,2-Dichloroethene	1.0	U	50.0	48.2		ug/L		96	75 - 124	2	20
trans-1,3-Dichloropropene	1.0	U	50.0	52.4		ug/L		105	73 - 127	1	20
Trichloroethene	1.0	U	50.0	47.7		ug/L		95	79 - 123	3	20
Trichlorofluoromethane	2.0	U	50.0	46.4		ug/L		93	65 - 141	5	20
Vinyl chloride	3.6	J	50.0	51.1		ug/L		95	58 - 137	1	20
Xylenes (total)	5.0	U	100	104		ug/L		104	79 - 121	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		81 - 118
4-Bromofluorobenzene (Surr)	106		85 - 114
Dibromofluoromethane (Surr)	104		80 - 119
Toluene-d8 (Surr)	103		89 - 112

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-348229/37

Matrix: Water

Analysis Batch: 348229

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	0.50	U	1.0	0.16	mg/L			10/25/16 05:07	1

Lab Sample ID: LCS 280-348229/35

Matrix: Water

Analysis Batch: 348229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Quad	25.0	25.6		mg/L		102	88 - 112

Lab Sample ID: LCSD 280-348229/36

Matrix: Water

Analysis Batch: 348229

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Quad	25.0	25.6		mg/L		102	88 - 112	0	15

TestAmerica Denver

QC Association Summary

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

GC/MS VOA

Analysis Batch: 275504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-89533-1	6MW2002	Total/NA	Water	8260C DOD	
280-89533-2	6MW2002D	Total/NA	Water	8260C DOD	
280-89533-3	6MW2302	Total/NA	Water	8260C DOD	
280-89533-4	6MW2202	Total/NA	Water	8260C DOD	
280-89533-5	6MW2402	Total/NA	Water	8260C DOD	
280-89533-6	6MW2502	Total/NA	Water	8260C DOD	
280-89533-7	6MW2602	Total/NA	Water	8260C DOD	
280-89533-8	TB03	Total/NA	Water	8260C DOD	
MB 160-275504/8	Method Blank	Total/NA	Water	8260C DOD	
LCS 160-275504/5	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 160-275504/6	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
280-89533-1 MS	6MW2002MS	Total/NA	Water	8260C DOD	
280-89533-1 MSD	6MW2002MSD	Total/NA	Water	8260C DOD	

General Chemistry

Analysis Batch: 348229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-89533-1	6MW2002	Total/NA	Water	9060A	
280-89533-3	6MW2302	Total/NA	Water	9060A	
280-89533-4	6MW2202	Total/NA	Water	9060A	
280-89533-5	6MW2402	Total/NA	Water	9060A	
280-89533-6	6MW2502	Total/NA	Water	9060A	
280-89533-7	6MW2602	Total/NA	Water	9060A	
MB 280-348229/37	Method Blank	Total/NA	Water	9060A	
LCS 280-348229/35	Lab Control Sample	Total/NA	Water	9060A	
LCSD 280-348229/36	Lab Control Sample Dup	Total/NA	Water	9060A	

Lab Chronicle

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2002

Date Collected: 10/11/16 15:31

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	275504	10/21/16 12:03	ADB	TAL SL
Total/NA	Analysis	9060A		1			348229	10/25/16 13:37	CCJ	TAL DEN

Client Sample ID: 6MW2002D

Date Collected: 10/11/16 15:31

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	275504	10/21/16 13:43	ADB	TAL SL

Client Sample ID: 6MW2302

Date Collected: 10/11/16 12:51

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	275504	10/21/16 14:08	ADB	TAL SL
Total/NA	Analysis	9060A		1			348229	10/25/16 13:56	CCJ	TAL DEN

Client Sample ID: 6MW2202

Date Collected: 10/11/16 11:46

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	275504	10/21/16 14:34	ADB	TAL SL
Total/NA	Analysis	9060A		8			348229	10/25/16 12:46	CCJ	TAL DEN

Client Sample ID: 6MW2402

Date Collected: 10/11/16 10:03

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	275504	10/21/16 14:59	ADB	TAL SL
Total/NA	Analysis	9060A		1			348229	10/25/16 12:05	CCJ	TAL DEN

Client Sample ID: 6MW2502

Date Collected: 10/11/16 14:39

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	275504	10/21/16 15:24	ADB	TAL SL
Total/NA	Analysis	9060A		3.33			348229	10/25/16 12:23	CCJ	TAL DEN

TestAmerica Denver

Lab Chronicle

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Client Sample ID: 6MW2602

Date Collected: 10/11/16 13:39

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	275504	10/21/16 15:49	ADB	TAL SL
Total/NA	Analysis	9060A		1.79			348229	10/25/16 11:50	CCJ	TAL DEN

Client Sample ID: TB03

Date Collected: 10/11/16 08:00

Date Received: 10/12/16 09:55

Lab Sample ID: 280-89533-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	275504	10/21/16 16:14	ADB	TAL SL

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Certification Summary

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Laboratory: TestAmerica Denver

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad
Connecticut	State Program	1	PH-0686
			09-30-18

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad
Florida	NELAP	4	E87667
			06-30-17

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad
New Hampshire	NELAP	1	205310
			04-28-17
New York	NELAP	2	11964
			04-01-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad
Pennsylvania	NELAP	3	68-00664
			07-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16 *
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Denver

Certification Summary

Client: Leidos, Inc.

Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
USDA	Federal		P330-14-0016	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17

Method Summary

Client: Leidos, Inc.

Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	TAL SL
9060A	Organic Carbon, Total (TOC)	SW846	TAL DEN

Protocol References:

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

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-89533-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-89533-1	6MW2002	Water	10/11/16 15:31	10/12/16 09:55
280-89533-2	6MW2002D	Water	10/11/16 15:31	10/12/16 09:55
280-89533-3	6MW2302	Water	10/11/16 12:51	10/12/16 09:55
280-89533-4	6MW2202	Water	10/11/16 11:46	10/12/16 09:55
280-89533-5	6MW2402	Water	10/11/16 10:03	10/12/16 09:55
280-89533-6	6MW2502	Water	10/11/16 14:39	10/12/16 09:55
280-89533-7	6MW2602	Water	10/11/16 13:39	10/12/16 09:55
280-89533-8	TB03	Water	10/11/16 08:00	10/12/16 09:55

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Instrument ID: VMSL Analysis Batch Number: 275235Lab Sample ID: IC 160-275235/6 Client Sample ID: _____Date Analyzed: 10/20/16 11:41 Lab File ID: LICL6159.D GC Column: RTXVMS30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.29	Incomplete Integration	buettnera	10/20/16 14:13

Lab Sample ID: IC 160-275235/9 Client Sample ID: _____Date Analyzed: 10/20/16 12:56 Lab File ID: LICL6162.D GC Column: RTXVMS30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.29	Incomplete Integration	buettnera	10/20/16 14:11

Lab Sample ID: IC 160-275235/16 Client Sample ID: _____Date Analyzed: 10/20/16 15:55 Lab File ID: LICL6169.D GC Column: RTXVMS30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.29	Incomplete Integration	buettnera	10/20/16 16:17

Lab Sample ID: ICV 160-275235/17 Client Sample ID: _____Date Analyzed: 10/20/16 16:22 Lab File ID: LICV6170.D GC Column: RTXVMS30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.29	Incomplete Integration	buettnera	10/20/16 16:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Instrument ID: VMSL Analysis Batch Number: 275504Lab Sample ID: CCVC 160-275504/21 Client Sample ID: _____Date Analyzed: 10/21/16 17:04 Lab File ID: LSMP6227.D GC Column: RTXVMS30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloro-1,1,2,2-tetrafluoroethane	3.29	Incomplete Integration	buettnera	10/24/16 11:38

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-89533-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
TOC ICV Std_00029	01/31/17		Ricca, Lot 1601d96		(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm
TOC LCS Std_00033	06/30/18		Ultra Scientific, Lot CP-2362		(Purchased Reagent)		Total Organic Carbon - Quad	1001 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260 NewWkMix_00188	10/23/16	10/16/16	Methanol, Lot DP303	10 mL	8260_2_CLEVE_00045	100 uL	2-Chloroethyl vinyl ether	25 ug/mL
					8260Custom1_00043	125 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	25 ug/mL
							n-Nonyl Aldehyde	25 ug/mL
					8260Cyclohexa_00045	100 uL	Cyclohexanone	250 ug/mL
					8260Gases_00178	100 uL	Bromomethane	25 ug/mL
							Butadiene	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Dichlorofluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					8260Ketones_00045	20 uL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
					8260MegaMix_00045	100 uL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							2-Methyl-2-propanol	250 ug/mL
							3-Chloro-1-propene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Cyclohexane	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethyl ether	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Ethylbenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexane	25 ug/mL
							Iodomethane	25 ug/mL
							Isobutyl alcohol	625 ug/mL
							Isopropylbenzene	25 ug/mL
							m,p-Xylenes	25 ug/mL
							Methyl acetate	125 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylcyclohexane	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							n-Heptane	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
					tert-Butylbenzene	25 ug/mL		
					Tetrachloroethene	25 ug/mL		
					Tetrahydrofuran	50 ug/mL		
					Toluene	25 ug/mL		
					trans-1,2-Dichloroethene	25 ug/mL		
					trans-1,3-Dichloropropene	25 ug/mL		
					trans-1,4-Dichloro-2-butene	25 ug/mL		
					Trichloroethene	25 ug/mL		
					8260VinAcetat_00047	50 uL	Vinyl acetate	25 ug/mL
					Acrolein_00038	62.5 uL	Acrolein	125 ug/mL
					Adds(A)_2016_00007	100 uL	1,2,3-Trimethylbenzene	25 ug/mL
							1,3,5-Trichlorobenzene	25 ug/mL
							1-Chlorohexane	25 ug/mL
							2-Chloro-1,3-butadiene	25 ug/mL
							2-Nitropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	25 ug/mL
							Isooctane	25 ug/mL
							Isopropyl alcohol	250 ug/mL
							Methacrylonitrile	250 ug/mL
							n-Butanol	625 ug/mL
					Adds(B) 2016_00001	100 uL	Ethyl acetate	50 ug/mL
							Ethyl acrylate	25 ug/mL
							Methyl methacrylate	50 ug/mL
							n-Butyl acetate	25 ug/mL
					Polar Add._00036	100 uL	Acetonitrile	250 ug/mL
							Ethanol	1000 ug/mL
							Isopropyl ether	25 ug/mL
							Propionitrile	250 ug/mL
							Tert-amyl methyl ether	25 ug/mL
							Tert-butyl ethyl ether	25 ug/mL
.8260 2_CLEVE_00045	11/16/16		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.8260Custom1_00043	11/09/16		Accustandard, Lot 215101095-01		(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00045	11/16/16		Restek, Lot A0116621		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.8260Gases_00178	10/23/16		Restek, Lot A0118719		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260Ketones_00045	11/16/16		Restek, Lot A0115554		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.8260MegaMix_00045	11/16/16		Restek, Lot A0118177		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m,p-Xylenes	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VinAcetat_00047	10/25/16		Restek, Lot A0119350		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00038	10/25/16		Restek, Lot A0119846		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A)_2016_00007	11/02/16		Restek, Lot A0116133		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.Adds(B)_2016_00001	11/02/16		Restek, Lot A0116077		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Polar Add._00036	11/16/16		Restek, Lot A0114666		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Ethanol	100000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
8260 Surr_25_00066	11/04/16	10/04/16	Methanol, Lot DP303	25 mL	8260_Surr_00040	250 uL	1,2-Dichloroethane-d4 (Surr)	25 ug/mL
							4-Bromofluorobenzene (Surr)	25 ug/mL
							Dibromofluoromethane (Surr)	25 ug/mL
							Toluene-d8 (Surr)	25 ug/mL
.8260_Surr_00040	11/04/16		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
							1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260NewHiWrk_00166	10/23/16	10/16/16	Methanol, Lot DP303	1 mL	8260_2_CLEVE_00045	50 uL	2-Chloroethyl vinyl ether	125 ug/mL
					8260Custom1_00043	62.5 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	125 ug/mL
							n-Nonyl Aldehyde	125 ug/mL
					8260Cyclohexa_00045	50 uL	Cyclohexanone	1250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					8260Gases_00178	50 uL	Bromomethane	125 ug/mL
							Butadiene	125 ug/mL
							Chloroethane	125 ug/mL
							Chloromethane	125 ug/mL
							Dichlorodifluoromethane	125 ug/mL
							Dichlorofluoromethane	125 ug/mL
							Trichlorofluoromethane	125 ug/mL
							Vinyl chloride	125 ug/mL
					8260Ketones_00045	10 uL	2-Butanone (MEK)	125 ug/mL
							2-Hexanone	125 ug/mL
							4-Methyl-2-pentanone (MIBK)	125 ug/mL
							Acetone	125 ug/mL
					8260MegaMix_00045	50 uL	1,1,1,2-Tetrachloroethane	125 ug/mL
							1,1,1-Trichloroethane	125 ug/mL
							1,1,2,2-Tetrachloroethane	125 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	125 ug/mL
							1,1,2-Trichloroethane	125 ug/mL
							1,1-Dichloroethane	125 ug/mL
							1,1-Dichloroethene	125 ug/mL
							1,1-Dichloropropene	125 ug/mL
							1,2,3-Trichlorobenzene	125 ug/mL
							1,2,3-Trichloropropane	125 ug/mL
							1,2,4-Trichlorobenzene	125 ug/mL
							1,2,4-Trimethylbenzene	125 ug/mL
							1,2-Dibromo-3-Chloropropane	125 ug/mL
							1,2-Dibromoethane	125 ug/mL
							1,2-Dichlorobenzene	125 ug/mL
							1,2-Dichloroethane	125 ug/mL
							1,2-Dichloropropane	125 ug/mL
							1,3,5-Trimethylbenzene	125 ug/mL
							1,3-Dichlorobenzene	125 ug/mL
							1,3-Dichloropropane	125 ug/mL
							1,4-Dichlorobenzene	125 ug/mL
							1,4-Dioxane	2500 ug/mL
							2,2-Dichloropropane	125 ug/mL
							2-Chlorotoluene	125 ug/mL
							2-Methyl-2-propanol	1250 ug/mL
							3-Chloro-1-propene	125 ug/mL
							4-Chlorotoluene	125 ug/mL
							Acrylonitrile	1250 ug/mL
							Benzene	125 ug/mL
							Bromobenzene	125 ug/mL
							Bromochloromethane	125 ug/mL
							Bromodichloromethane	125 ug/mL
							Bromoform	125 ug/mL
							Carbon disulfide	125 ug/mL
							Carbon tetrachloride	125 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	125 ug/mL
							Chloroform	125 ug/mL
							cis-1,2-Dichloroethene	125 ug/mL
							cis-1,3-Dichloropropene	125 ug/mL
							Cyclohexane	125 ug/mL
							Dibromochloromethane	125 ug/mL
							Dibromomethane	125 ug/mL
							Ethyl ether	125 ug/mL
							Ethyl methacrylate	125 ug/mL
							Ethylbenzene	125 ug/mL
							Hexachlorobutadiene	125 ug/mL
							Hexane	125 ug/mL
							Iodomethane	125 ug/mL
							Isobutyl alcohol	3125 ug/mL
							Isopropylbenzene	125 ug/mL
							m,p-Xylenes	125 ug/mL
							Methyl acetate	625 ug/mL
							Methyl tert-butyl ether	125 ug/mL
							Methylcyclohexane	125 ug/mL
							Methylene Chloride	125 ug/mL
							n-Butylbenzene	125 ug/mL
							n-Heptane	125 ug/mL
							N-Propylbenzene	125 ug/mL
							Naphthalene	125 ug/mL
							o-Xylene	125 ug/mL
							p-Isopropyltoluene	125 ug/mL
							sec-Butylbenzene	125 ug/mL
							Styrene	125 ug/mL
							tert-Butylbenzene	125 ug/mL
							Tetrachloroethene	125 ug/mL
							Tetrahydrofuran	250 ug/mL
							Toluene	125 ug/mL
							trans-1,2-Dichloroethene	125 ug/mL
							trans-1,3-Dichloropropene	125 ug/mL
							trans-1,4-Dichloro-2-butene	125 ug/mL
							Trichloroethene	125 ug/mL
					8260VinAcetat 00047	25 uL	Vinyl acetate	125 ug/mL
					Acrolein 00038	31.25 uL	Acrolein	625 ug/mL
					Adds (A) 2016_00007	50 uL	1,2,3-Trimethylbenzene	125 ug/mL
							1,3,5-Trichlorobenzene	125 ug/mL
							1-Chlorohexane	125 ug/mL
							2-Chloro-1,3-butadiene	125 ug/mL
							2-Nitropropane	250 ug/mL
							Benzyl chloride	125 ug/mL
							Isooctane	125 ug/mL
							Isopropyl alcohol	1250 ug/mL
							Methacrylonitrile	1250 ug/mL
							n-Butanol	3125 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					Adds(B) 2016_00001	50 uL	Ethyl acetate	250 ug/mL
							Ethyl acrylate	125 ug/mL
							Methyl methacrylate	250 ug/mL
							n-Butyl acetate	125 ug/mL
					Polar Add._00036	50 uL	Acetonitrile	1250 ug/mL
							Ethanol	5000 ug/mL
							Isopropyl ether	125 ug/mL
							Propionitrile	1250 ug/mL
							Tert-amyl methyl ether	125 ug/mL
Tert-butyl ethyl ether	125 ug/mL							
.8260 2 CLEVE 00045	11/16/16	Restek, Lot A0115628			(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.8260Custom1_00043	11/09/16	Accustandard, Lot 215101095-01			(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
						n-Nonyl Aldehyde	2000 ug/mL	
.8260Cyclohexa 00045	11/16/16	Restek, Lot A0116621			(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.8260Gases_00178	10/23/16	Restek, Lot A0118719			(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
							.8260Ketones_00045	11/16/16
2-Hexanone	12500 ug/mL							
4-Methyl-2-pentanone (MIBK)	12500 ug/mL							
Acetone	12500 ug/mL							
.8260MegaMix_00045	11/16/16	Restek, Lot A0118177			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m,p-Xylenes	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VinAcetat_00047	10/25/16		Restek, Lot A0119350		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00038	10/25/16		Restek, Lot A0119846		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A) 2016_00007	11/02/16		Restek, Lot A0116133		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.Adds(B) 2016_00001	11/02/16		Restek, Lot A0116077		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Polar Add._00036	11/16/16		Restek, Lot A0114666		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Ethanol	100000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
8260NewICVMix_00179	10/23/16	10/16/16	Methanol, Lot DP303	5 mL	8260GasesSS_00179	50 uL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					8260KetonesSS_00044	10 uL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
					8260MegaMixSS_00044	50 uL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dibromoethane	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Isopropylbenzene	25 ug/mL
							m,p-Xylenes	25 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
.8260GasesSS_00179	10/23/16	Restek, Lot A0115484			(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260KetonesSS_00044	11/16/16	Restek, Lot A0118013			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260MegaMixSS_00044	11/16/16		Restek, Lot A0120604		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m,p-Xylenes	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
I.S. Working_00138	10/28/16	09/29/16	Methanol, Lot DP303	25 mL	8260 IS(2014)_00032	250 uL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene	25 ug/mL
.8260 IS(2014)_00032	10/28/16		Restek, Lot A0117358		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL

Reagent

TOC ICV Std_00029

Certificate of Analysis

Organic Carbon Standard, 1000 ppm C

Lot Number: 1601D96

Product Number: 1847

Manufacture Date: FEB 01, 2016

Expiration Date: JAN 2017

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Phosphoric Acid	7664-38-2	ACS
Potassium Acid Phthalate	877-24-7	ACS Acidimetric

Test	Specification	Result
Appearance	Colorless liquid	Passed
Carbon (C)	995-1005 ppm	1000 ppm

Specification	Reference
Organic Carbon Stock Solution	APHA (5310 B)
Potassium Hydrogen Phthalate, Stock Solution	EPA (SW-846) (9060)
Potassium Hydrogen Phthalate, Stock Solution, 1000 mg Carbon/liter	EPA (415.1)
Organic Carbon Solution, Standard (1 mL = 1 mg C)	ASTM (D 2579)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1847-2.5	10 L Cubitainer®	12 months
1847-4	120 mL amber glass	12 months
1847-32	1 L amber glass	12 months
1847-5	20 L Cubitainer®	12 months
1847-8	250 mL amber glass	12 months
1847-1	4 L amber glass	12 months
1847-16	500 mL amber glass	12 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Katie Schnur
Quality Control Manager

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

Reagent

TOC LCS Std_00033

Certificate of Analysis



ISO Guide 34 Reference Material

Product Number: IQC-106
Lot Number: CP-2362

Lot Issue Date: 19-May 2016
Expiration Date: 30-Jun 2018

Product Name: Total Organic Carbon (TOC) Standard

Description:

This Reference Material (RM) was gravimetrically prepared in accordance with ISO Guide 34 and under ULTRA Scientific's ISO 9001 registered quality system. The neat materials used for this product have been verified by ULTRA's ISO 17025 laboratory and under ULTRA's ISO Guide 34 accreditation. The analyte concentrations were verified by ULTRA's ISO 17025 accredited laboratory. For each analyte, the true value, with its uncertainty value calculated at the 95% confidence level, is reported below.

Analyte	Starting Material	Lot Number	Purity (%)	Calculated Value	True Value	Traceability & Method
TOC	potassium hydrogen phthalate	RM09514	99.98	1001 ± 5 µg/mL	985 ± 16 µg/mL	NW09571; TOC Analyzer

Solvent: water (low TOC, <50 ppb)

Storage: Store at Room Temperature (15° to 30°C).

Traceability:

Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1, ISO 9001, ISO 17025, and ISO Guide 34. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.

Estimation of Uncertainties:

The true value is reported, with its uncertainty value calculated at the 95% confidence level.

Homogeneity:

This RM was formulated and unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening and should be processed without delay for the true value to be valid within the stated uncertainties. Do not pipet from the bottle. Do not return any material removed for pipetting to the bottle. Tightly cap the bottle after removing any material and store according to the instructions noted above.

Hazards:

Refer to the Safety Data Sheet for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.



ISO 9001 Registered Quality System – TUV USA

Page 1 of 2

Certificate of Analysis



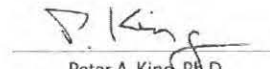
ISO Guide 34 Reference Material

Product Number: IQC-106
Lot Number: CP-2362

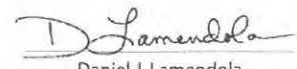
Lot Issue Date: 13-May 2016
Expiration Date: 30-Jun 2018

Maintenance of Certification:

The real-time, long term stability of the RM may be monitored over the lifetime of the certification. If substantive changes occur that affect the certification before the expiration of this certificate, ULTRA Scientific will notify the purchaser.



Peter A. King, Ph.D.
VP, Technical Operations



Daniel J. Lamendola
Director of QA/RA

Reagent

8260 IS (2014)_00032



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30241 Lot No.: A0117358
Description : 8260A Internal Standard Mix
8260A Internal Standard Mix 2,500 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : February 28, 2021 Storage: 0°C or colder

REC'D 7-7-16
JDH
960587-588

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Fluorobenzene CAS # 462-06-6 (Lot BCBK8171V) Purity 99%	2,501.8 µg/mL	+/- 14.5457 µg/mL Gravimetric +/- 140.2734 µg/mL Unstressed +/- 143.5557 µg/mL Stressed
2	Chlorobenzene-d5 CAS # 3114-55-4 (Lot PR-23926) Purity 99%	2,500.1 µg/mL	+/- 14.5358 µg/mL Gravimetric +/- 140.1781 µg/mL Unstressed +/- 143.4581 µg/mL Stressed
3	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 (Lot PR-18488) Purity 99%	2,500.7 µg/mL	+/- 14.5393 µg/mL Gravimetric +/- 140.2118 µg/mL Unstressed +/- 143.4925 µg/mL Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

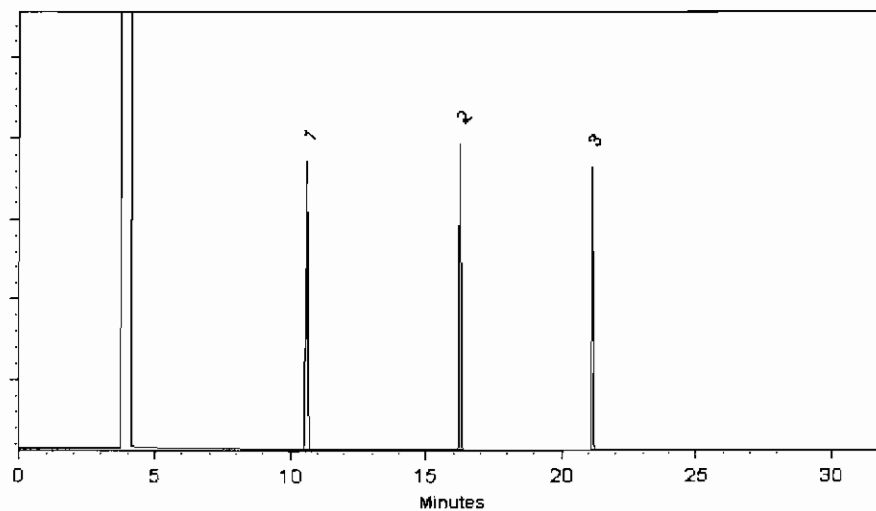
200°C

Det. Temp:

250°C

Det. Type:

FID



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

Brandon Cook

Brandon Cook - Mix Technician

Date Mixed: 16-Feb-2016

Balance: 1127510105

Jennifer L. Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 18-Feb-2016

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

Reagent

8260_Surr_00040



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567650 **Lot No.:** A0115812
Description : 8260 Surrogate Standard
8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2020 **Storage:** 0°C or colder

REC'D 7-7-16
JDA
960589-590

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane CAS # 1868-53-7 (Lot 022012) Purity 99%	2,503.1 µg/mL	+/- 14.5534 µg/mL +/- 140.3482 µg/mL +/- 143.6322 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 CAS # 17060-07-0 (Lot 14C-191) Purity 99%	2,500.1 µg/mL	+/- 14.5360 µg/mL +/- 140.1800 µg/mL +/- 143.4600 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 CAS # 2037-26-5 (Lot PR-26282) Purity 99%	2,505.0 µg/mL	+/- 14.5643 µg/mL +/- 140.4529 µg/mL +/- 143.7393 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 (Lot 20401KOV) Purity 99%	2,501.1 µg/mL	+/- 14.5418 µg/mL +/- 140.2361 µg/mL -/- 143.5174 µg/mL	Gravimetric Unstressed Stressed
Solvent: P&T Methanol CAS # 67-56-1 Purity 99%				

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

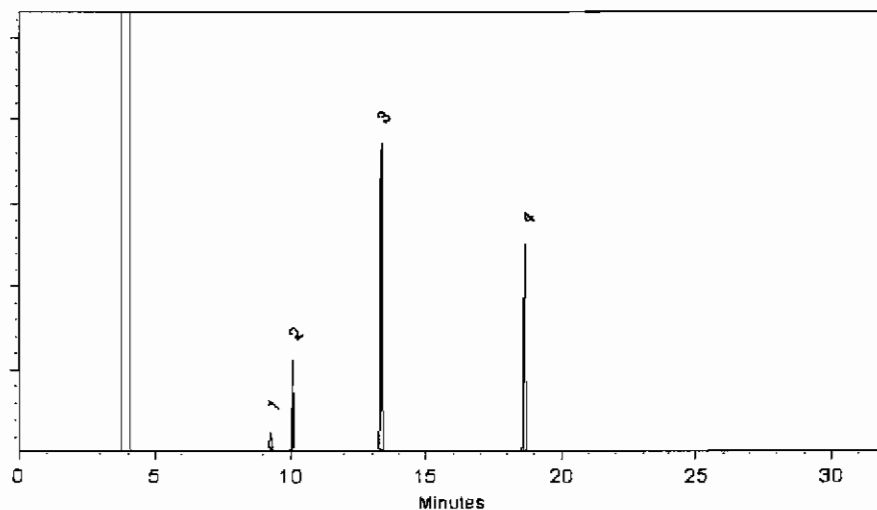
200°C

Det. Temp:

250°C

Det. Type:

FID



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

Brandon Cook

Brandon Cook - Mix Technician

Date Mixed: 07-Dec-2015

Balance: 1127510105

Jennifer L. Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 10-Dec-2015

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

Reagent

8260Custom1_00043



CERTIFICATE OF ANALYSIS

Catalog No: S-26138

Description: Custom VOC Standard

Lot: 215101095-01

Solvent: Methanol

Hazards: **HIGHLY FLAMMABLE** - Refer to SDS for safety info

Date Certified: Jul 25, 2016

Expiration: Jul 25, 2017

Sample Size: 1 mL

Components: 2

Storage Condition: Refrig (0-5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes



Danger 2

Component	CAS #	Purity % (GC/FID)	Prepared Concentration ¹ (µg/mL)	Certified Analyte Concentration ² (µg/mL)
Freon 114	76-14-2	99.0	2013	1993
Nonanal	124-19-6	100.0	2004	2004

REC'D 7-26-16
Jdt

962484-488

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

¹ All weights are traceable through NIST, Test No. 822-275872-11

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

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By:

Larry Decker, Organic QC Manager

CERTIFICATION REPORT

1. **Quality Documentation:** This certificate is designed in accordance with ISO Guide 31 (Reference Materials - Contents of Certificates and Labels) and ISO Guide 35 (Reference Materials – General and Statistical Principles for Certification).

2. **Quality Standards:**

ISO Guide 34 - General Requirements for the Competence of
Reference Material Producers ANAB Certificate Number AR-1463



ISO/IEC 17025 - General Requirements for the Competence of
Testing and Calibration Laboratories ANAB Certificate Number AT-1339



ISO 9001 - Quality Management System - Requirements
Eagle Registrations Certificate Number 3774

3. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 11. If dilution is required, use only Class A glassware and diluent compatible with all certified analytes in this preparation. All solutions should be thoroughly mixed prior to use.
4. **Raw Materials:** Reference standards are prepared from the highest quality starting materials with defined purities. All analytes and solvents are obtained from pre-qualified vendors and then analyzed or evaluated prior to use.
5. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.
6. **Homogeneity Assessment:** Homogeneity of the finished product is assessed by analyzing sample batches or by other methods consistent with the intended use of the product and by procedures that comply with the appropriate Quality System requirements, and ISO Guide 35.
7. **Stability Assessment:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label. To ensure a uniform solution, mix the contents of the sealed container thoroughly prior to use. Care should be taken not to contaminate the contents of the original container.
8. **Analytical Quality Control:** Products are tested by validated analytical methods specified in the manufacturer's quality system.
9. **Uncertainty Statistics and Confidence Limits:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula:
$$u_m = \sqrt{(u(P))^2 + (u(m))^2 + (u(V))^2}$$

The expanded uncertainty, U_{CRM} assumes a normal distribution and a coverage factor of $k=2$ is chosen using approximately a 95% confidence level. The U_{CRM} for organic products is $\pm 5\%$, the U_{CRM} for inorganic products is $\pm 2\%$.
10. **Warranties:** The manufacturer warrants that its products shall conform to the description of such products as provided in its catalog or on the specific product label. This warranty is exclusive, and the manufacturer makes no other warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.
11. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. Due to the hazardous nature, only trained personnel should handle this product. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Method 8260C DOD

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): RTXVMS30 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
6MW2002	280-89533-1	105	102	106	110
6MW2002D	280-89533-2	102	98	103	111
6MW2302	280-89533-3	104	101	103	114
6MW2202	280-89533-4	103	99	104	112
6MW2402	280-89533-5	105	105	102	112
6MW2502	280-89533-6	107	106	105	111
6MW2602	280-89533-7	107	106	103	110
TB03	280-89533-8	106	104	103	110
	MB 160-275504/8	100	101	108	110
	LCS 160-275504/5	100	103	102	102
	LCSD 160-275504/6	99	99	105	105
6MW2002MS MS	280-89533-1 MS	105	102	104	104
6MW2002MSD MSD	280-89533-1 MSD	104	100	103	106

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	80-119
DCA = 1,2-Dichloroethane-d4 (Surr)	81-118
TOL = Toluene-d8 (Surr)	89-112
BFB = 4-Bromofluorobenzene (Surr)	85-114

Column to be used to flag recovery values

FORM II 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: LLCS6211.D
 Lab ID: LCS 160-275504/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	48.0	96	78-124	
1,1,1-Trichloroethane	50.0	48.8	98	74-131	
1,1,2,2-Tetrachloroethane	50.0	47.9	96	71-121	
1,1,2-Trichloroethane	50.0	49.2	98	80-119	
1,1-Dichloroethane	50.0	47.9	96	77-125	
1,1-Dichloroethene	50.0	48.9	98	71-131	
1,1-Dichloropropene	50.0	50.3	101	79-125	
1,2,3-Trichlorobenzene	50.0	49.4	99	69-129	
1,2,3-Trichloropropane	50.0	49.6	99	73-122	
1,2,4-Trimethylbenzene	50.0	51.4	103	76-124	
1,2-Dibromo-3-Chloropropane	50.0	52.6	105	62-128	
1,2-Dibromoethane	50.0	49.9	100	80-120	
1,2-Dichloroethane	50.0	51.2	102	73-128	
1,2-Dichloropropane	50.0	49.2	98	78-122	
1,3,5-Trimethylbenzene	50.0	52.6	105	75-124	
1,3-Dichloropropane	50.0	49.5	99	80-119	
2,2-Dichloropropane	50.0	50.0	100	60-139	
2-Butanone (MEK)	50.0	46.3	93	56-143	
2-Chlorotoluene	50.0	49.4	99	79-122	
2-Hexanone	50.0	48.7	97	57-139	
4-Chlorotoluene	50.0	50.7	101	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	52.9	106	67-130	
Acetone	50.0	49.6	99	39-160	
Benzene	50.0	48.7	97	79-120	
Bromobenzene	50.0	48.3	97	80-120	
Bromochloromethane	50.0	49.5	99	78-123	
Bromodichloromethane	50.0	49.7	99	79-125	
Bromoform	50.0	49.0	98	66-130	
Bromomethane	50.0	53.3	107	53-141	
Carbon disulfide	50.0	48.5	97	64-133	
Carbon tetrachloride	50.0	48.5	97	72-136	
Chlorobenzene	50.0	47.9	96	82-118	
Chloroethane	50.0	52.9	106	60-138	
Chloroform	50.0	48.5	97	79-124	
Chloromethane	50.0	49.3	99	50-139	
cis-1,2-Dichloroethene	50.0	49.1	98	78-123	
cis-1,3-Dichloropropene	50.0	52.2	104	75-124	
Dibromochloromethane	50.0	49.9	100	74-126	
Dibromomethane	50.0	49.5	99	79-123	
Dichlorodifluoromethane	50.0	59.0	118	32-152	
Ethylbenzene	50.0	49.3	99	79-121	
Isopropylbenzene	50.0	51.7	103	72-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: LLCS6211.D
 Lab ID: LCS 160-275504/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	51.0	102	80-121	
Methyl tert-butyl ether	50.0	52.4	105	71-124	
Methylene Chloride	50.0	48.0	96	74-124	
Naphthalene	50.0	49.3	99	61-128	
n-Butylbenzene	50.0	52.8	106	75-128	
N-Propylbenzene	50.0	52.5	105	76-126	
o-Xylene	50.0	52.4	105	78-122	
p-Isopropyltoluene	50.0	52.5	105	77-127	
sec-Butylbenzene	50.0	51.7	103	77-126	
Styrene	50.0	53.0	106	78-123	
tert-Butylbenzene	50.0	51.8	104	78-124	
Tetrachloroethene	50.0	48.4	97	74-129	
Toluene	50.0	49.4	99	80-121	
trans-1,2-Dichloroethene	50.0	48.8	98	75-124	
trans-1,3-Dichloropropene	50.0	51.9	104	73-127	
Trichloroethene	50.0	48.8	98	79-123	
Trichlorofluoromethane	50.0	49.5	99	65-141	
Vinyl chloride	50.0	49.7	99	58-137	
Xylenes (total)	100	103	103	79-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: LLCS6212.D
 Lab ID: LCSD 160-275504/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	49.1	98	2	20	78-124	
1,1,1-Trichloroethane	50.0	48.7	97	0	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	47.8	96	0	20	71-121	
1,1,2-Trichloroethane	50.0	49.1	98	0	20	80-119	
1,1-Dichloroethane	50.0	48.3	97	1	20	77-125	
1,1-Dichloroethene	50.0	49.5	99	1	20	71-131	
1,1-Dichloropropene	50.0	51.3	103	2	20	79-125	
1,2,3-Trichlorobenzene	50.0	46.0	92	7	20	69-129	
1,2,3-Trichloropropane	50.0	48.5	97	2	20	73-122	
1,2,4-Trimethylbenzene	50.0	52.7	105	3	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	50.1	100	5	20	62-128	
1,2-Dibromoethane	50.0	50.1	100	0	20	80-120	
1,2-Dichloroethane	50.0	49.4	99	4	20	73-128	
1,2-Dichloropropane	50.0	49.5	99	1	20	78-122	
1,3,5-Trimethylbenzene	50.0	54.4	109	3	20	75-124	
1,3-Dichloropropane	50.0	50.4	101	2	20	80-119	
2,2-Dichloropropane	50.0	49.7	99	1	20	60-139	
2-Butanone (MEK)	50.0	45.9	92	1	20	56-143	
2-Chlorotoluene	50.0	50.7	101	3	20	79-122	
2-Hexanone	50.0	50.2	100	3	20	57-139	
4-Chlorotoluene	50.0	52.3	105	3	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	52.8	106	0	20	67-130	
Acetone	50.0	47.6	95	4	20	39-160	
Benzene	50.0	48.9	98	0	20	79-120	
Bromobenzene	50.0	49.2	98	2	20	80-120	
Bromochloromethane	50.0	48.4	97	2	20	78-123	
Bromodichloromethane	50.0	49.2	98	1	20	79-125	
Bromoform	50.0	48.9	98	0	20	66-130	
Bromomethane	50.0	48.7	97	9	20	53-141	
Carbon disulfide	50.0	49.1	98	1	20	64-133	
Carbon tetrachloride	50.0	48.3	97	0	20	72-136	
Chlorobenzene	50.0	48.5	97	1	20	82-118	
Chloroethane	50.0	51.4	103	3	20	60-138	
Chloroform	50.0	48.3	97	0	20	79-124	
Chloromethane	50.0	49.6	99	1	20	50-139	
cis-1,2-Dichloroethene	50.0	49.9	100	2	20	78-123	
cis-1,3-Dichloropropene	50.0	52.1	104	0	20	75-124	
Dibromochloromethane	50.0	50.3	101	1	20	74-126	
Dibromomethane	50.0	49.1	98	1	20	79-123	
Dichlorodifluoromethane	50.0	58.5	117	1	20	32-152	
Ethylbenzene	50.0	50.7	101	3	20	79-121	
Isopropylbenzene	50.0	53.8	108	4	20	72-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: LLCS6212.D
 Lab ID: LCSD 160-275504/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
m,p-Xylenes	50.0	52.6	105	3	20	80-121	
Methyl tert-butyl ether	50.0	51.7	103	1	20	71-124	
Methylene Chloride	50.0	47.8	96	0	20	74-124	
Naphthalene	50.0	47.1	94	4	20	61-128	
n-Butylbenzene	50.0	53.8	108	2	20	75-128	
N-Propylbenzene	50.0	54.2	108	3	20	76-126	
o-Xylene	50.0	54.1	108	3	20	78-122	
p-Isopropyltoluene	50.0	54.4	109	4	20	77-127	
sec-Butylbenzene	50.0	53.6	107	4	20	77-126	
Styrene	50.0	54.3	109	2	20	78-123	
tert-Butylbenzene	50.0	53.4	107	3	20	78-124	
Tetrachloroethene	50.0	51.1	102	5	20	74-129	
Toluene	50.0	51.6	103	4	20	80-121	
trans-1,2-Dichloroethene	50.0	49.2	98	1	20	75-124	
trans-1,3-Dichloropropene	50.0	52.7	105	2	20	73-127	
Trichloroethene	50.0	48.8	98	0	20	79-123	
Trichlorofluoromethane	50.0	48.9	98	1	20	65-141	
Vinyl chloride	50.0	49.5	99	0	20	58-137	
Xylenes (total)	100	107	107	3	20	79-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica St. Louis

Job No.: 280-89533-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: LSMP6216.D

Lab ID: 280-89533-1 MS

Client ID: 6MW2002MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	2.0 U	48.9	98	78-124	
1,1,1-Trichloroethane	50.0	1.0 U	48.8	98	74-131	
1,1,2,2-Tetrachloroethane	50.0	2.0 U	47.1	94	71-121	
1,1,2-Trichloroethane	50.0	1.0 U	49.2	98	80-119	
1,1-Dichloroethane	50.0	1.0 U	48.2	96	77-125	
1,1-Dichloroethene	50.0	1.0 U	48.8	98	71-131	
1,1-Dichloropropene	50.0	1.0 U	51.3	103	79-125	
1,2,3-Trichlorobenzene	50.0	2.0 U	45.4	91	69-129	
1,2,3-Trichloropropane	50.0	1.0 U	48.7	97	73-122	
1,2,4-Trimethylbenzene	50.0	2.0 U	52.3	105	76-124	
1,2-Dibromo-3-Chloropropane	50.0	2.0 U	51.8	104	62-128	
1,2-Dibromoethane	50.0	2.0 U	50.5	101	80-120	
1,2-Dichloroethane	50.0	1.0 U	50.2	100	73-128	
1,2-Dichloropropane	50.0	1.0 U	50.2	100	78-122	
1,3,5-Trimethylbenzene	50.0	2.0 U	53.6	107	75-124	
1,3-Dichloropropane	50.0	1.0 U	49.9	100	80-119	
2,2-Dichloropropane	50.0	2.0 U	50.1	100	60-139	
2-Butanone (MEK)	50.0	4.3 J	46.7	85	56-143	
2-Chlorotoluene	50.0	2.0 U	49.7	99	79-122	
2-Hexanone	50.0	2.0 U	49.7	99	57-139	
4-Chlorotoluene	50.0	2.0 U	51.6	103	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	2.0 U	52.8	106	67-130	
Acetone	50.0	10 U	45.7	91	39-160	
Benzene	50.0	1.0 U	48.7	97	79-120	
Bromobenzene	50.0	2.0 U	48.7	97	80-120	
Bromochloromethane	50.0	2.0 U	49.8	100	78-123	
Bromodichloromethane	50.0	2.0 U	50.1	100	79-125	
Bromoform	50.0	1.0 U	48.9	98	66-130	
Bromomethane	50.0	1.1 J	31.6	61	53-141	
Carbon disulfide	50.0	0.86 J	48.7	96	64-133	
Carbon tetrachloride	50.0	1.0 U	49.1	98	72-136	
Chlorobenzene	50.0	1.0 U	48.8	98	82-118	
Chloroethane	50.0	1.0 U	48.6	97	60-138	
Chloroform	50.0	1.0 U	48.9	98	79-124	
Chloromethane	50.0	2.0 U	43.4	87	50-139	
cis-1,2-Dichloroethene	50.0	4.4 J	54.2	100	78-123	
cis-1,3-Dichloropropene	50.0	1.0 U	51.1	102	75-124	
Dibromochloromethane	50.0	1.0 U	50.1	100	74-126	
Dibromomethane	50.0	2.0 U	49.8	100	79-123	
Dichlorodifluoromethane	50.0	2.0 U	58.2	116	32-152	
Ethylbenzene	50.0	1.0 U	50.5	101	79-121	
Isopropylbenzene	50.0	2.0 U	52.6	105	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: LSMP6216.D
 Lab ID: 280-89533-1 MS Client ID: 6MW2002MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	1.0 U	52.2	104	80-121	
Methyl tert-butyl ether	50.0	2.0 U	52.1	104	71-124	
Methylene Chloride	50.0	5.0 U	47.5	95	74-124	
Naphthalene	50.0	2.0 U	47.1	94	61-128	
n-Butylbenzene	50.0	2.0 U	53.4	107	75-128	
N-Propylbenzene	50.0	2.0 U	52.9	106	76-126	
o-Xylene	50.0	1.0 U	54.0	108	78-122	
p-Isopropyltoluene	50.0	2.0 U	53.8	108	77-127	
sec-Butylbenzene	50.0	2.0 U	52.6	105	77-126	
Styrene	50.0	1.0 U	54.1	108	78-123	
tert-Butylbenzene	50.0	2.0 U	52.5	105	78-124	
Tetrachloroethene	50.0	1.0 U	49.6	99	74-129	
Toluene	50.0	1.0 U	50.6	101	80-121	
trans-1,2-Dichloroethene	50.0	1.0 U	49.3	99	75-124	
trans-1,3-Dichloropropene	50.0	1.0 U	53.0	106	73-127	
Trichloroethene	50.0	1.0 U	49.3	99	79-123	
Trichlorofluoromethane	50.0	2.0 U	48.8	98	65-141	
Vinyl chloride	50.0	3.6 J	50.8	94	58-137	
Xylenes (total)	100	5.0 U	106	106	79-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis

Job No.: 280-89533-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: LSMP6217.D

Lab ID: 280-89533-1 MSD

Client ID: 6MW2002MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	48.3	97	1	20	78-124	
1,1,1-Trichloroethane	50.0	47.2	94	3	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	47.5	95	1	20	71-121	
1,1,2-Trichloroethane	50.0	48.5	97	1	20	80-119	
1,1-Dichloroethane	50.0	46.8	94	3	20	77-125	
1,1-Dichloroethene	50.0	47.6	95	3	20	71-131	
1,1-Dichloropropene	50.0	49.5	99	4	20	79-125	
1,2,3-Trichlorobenzene	50.0	49.0	98	8	20	69-129	
1,2,3-Trichloropropane	50.0	48.6	97	0	20	73-122	
1,2,4-Trimethylbenzene	50.0	50.8	102	3	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	52.3	105	1	20	62-128	
1,2-Dibromoethane	50.0	50.2	100	1	20	80-120	
1,2-Dichloroethane	50.0	48.5	97	3	20	73-128	
1,2-Dichloropropane	50.0	49.4	99	2	20	78-122	
1,3,5-Trimethylbenzene	50.0	52.4	105	2	20	75-124	
1,3-Dichloropropane	50.0	49.9	100	0	20	80-119	
2,2-Dichloropropane	50.0	48.2	96	4	20	60-139	
2-Butanone (MEK)	50.0	47.7	87	2	20	56-143	
2-Chlorotoluene	50.0	48.8	98	2	20	79-122	
2-Hexanone	50.0	50.5	101	1	20	57-139	
4-Chlorotoluene	50.0	50.5	101	2	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	53.7	107	2	20	67-130	
Acetone	50.0	47.3	95	4	20	39-160	
Benzene	50.0	47.5	95	3	20	79-120	
Bromobenzene	50.0	48.4	97	1	20	80-120	
Bromochloromethane	50.0	49.8	100	0	20	78-123	
Bromodichloromethane	50.0	49.3	99	2	20	79-125	
Bromoform	50.0	49.6	99	1	20	66-130	
Bromomethane	50.0	29.1	56	8	20	53-141	
Carbon disulfide	50.0	47.7	94	2	20	64-133	
Carbon tetrachloride	50.0	46.8	94	5	20	72-136	
Chlorobenzene	50.0	47.4	95	3	20	82-118	
Chloroethane	50.0	46.1	92	5	20	60-138	
Chloroform	50.0	47.0	94	4	20	79-124	
Chloromethane	50.0	44.0	88	2	20	50-139	
cis-1,2-Dichloroethene	50.0	53.6	98	1	20	78-123	
cis-1,3-Dichloropropene	50.0	51.3	103	0	20	75-124	
Dibromochloromethane	50.0	49.8	100	1	20	74-126	
Dibromomethane	50.0	49.8	100	0	20	79-123	
Dichlorodifluoromethane	50.0	56.6	113	3	20	32-152	
Ethylbenzene	50.0	48.4	97	4	20	79-121	
Isopropylbenzene	50.0	51.6	103	2	20	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: LSMP6217.D
 Lab ID: 280-89533-1 MSD Client ID: 6MW2002MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
m,p-Xylenes	50.0	50.5	101	3	20	80-121	
Methyl tert-butyl ether	50.0	52.2	104	0	20	71-124	
Methylene Chloride	50.0	47.0	94	1	20	74-124	
Naphthalene	50.0	50.0	100	6	20	61-128	
n-Butylbenzene	50.0	52.3	105	2	20	75-128	
N-Propylbenzene	50.0	52.0	104	2	20	76-126	
o-Xylene	50.0	53.1	106	2	20	78-122	
p-Isopropyltoluene	50.0	52.1	104	3	20	77-127	
sec-Butylbenzene	50.0	50.8	102	3	20	77-126	
Styrene	50.0	53.0	106	2	20	78-123	
tert-Butylbenzene	50.0	51.5	103	2	20	78-124	
Tetrachloroethene	50.0	47.7	95	4	20	74-129	
Toluene	50.0	49.0	98	3	20	80-121	
trans-1,2-Dichloroethene	50.0	48.2	96	2	20	75-124	
trans-1,3-Dichloropropene	50.0	52.4	105	1	20	73-127	
Trichloroethene	50.0	47.7	95	3	20	79-123	
Trichlorofluoromethane	50.0	46.4	93	5	20	65-141	
Vinyl chloride	50.0	51.1	95	1	20	58-137	
Xylenes (total)	100	104	104	2	20	79-121	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1
 SDG No.: _____
 Lab File ID: LBLK6214.D Lab Sample ID: MB 160-275504/8
 Matrix: Water Heated Purge: (Y/N) Y
 Instrument ID: VMSL Date Analyzed: 10/21/2016 11:38
 GC Column: RTXVMS30 ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 160-275504/5	LLCS6211.D	10/21/2016 10:23
	LCSD 160-275504/6	LLCS6212.D	10/21/2016 10:48
6MW2002	280-89533-1	LSMP6215.D	10/21/2016 12:03
6MW2002MS MS	280-89533-1 MS	LSMP6216.D	10/21/2016 12:28
6MW2002MSD MSD	280-89533-1 MSD	LSMP6217.D	10/21/2016 12:53
6MW2002D	280-89533-2	LSMP6219.D	10/21/2016 13:43
6MW2302	280-89533-3	LSMP6220.D	10/21/2016 14:08
6MW2202	280-89533-4	LSMP6221.D	10/21/2016 14:34
6MW2402	280-89533-5	LSMP6222.D	10/21/2016 14:59
6MW2502	280-89533-6	LSMP6223.D	10/21/2016 15:24
6MW2602	280-89533-7	LSMP6224.D	10/21/2016 15:49
TB03	280-89533-8	LSMP6225.D	10/21/2016 16:14

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1
 SDG No.: _____
 Lab File ID: LBFB6156.D BFB Injection Date: 10/20/2016
 Instrument ID: VMSL BFB Injection Time: 10:29
 Analysis Batch No.: 275235

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.0
75	30.0 - 60.0 % of mass 95	53.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	77.2
175	5.0 - 9.0 % of mass 174	5.8 (7.5) 1
176	95.0 - 101.0 % of mass 174	77.4 (100.2) 1
177	5.0 - 9.0 % of mass 176	5.1 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 160-275235/5	LICL6158.D	10/20/2016	11:15
	IC 160-275235/6	LICL6159.D	10/20/2016	11:41
	IC 160-275235/7	LICL6160.D	10/20/2016	12:06
	IC 160-275235/9	LICL6162.D	10/20/2016	12:56
	IC 160-275235/11	LICL6164.D	10/20/2016	13:46
	IC 160-275235/12	LICL6165.D	10/20/2016	14:11
	ICIS 160-275235/15	LICL6167.D	10/20/2016	15:05
	IC 160-275235/16	LICL6169.D	10/20/2016	15:55
	ICV 160-275235/17	LICV6170.D	10/20/2016	16:22

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1
SDG No.: _____
Lab File ID: LBFB6209.D BFB Injection Date: 10/21/2016
Instrument ID: VMSL BFB Injection Time: 09:33
Analysis Batch No.: 275504

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.0
75	30.0 - 60.0 % of mass 95	52.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	79.2
175	5.0 - 9.0 % of mass 174	6.0 (7.6) 1
176	95.0 - 101.0 % of mass 174	79.4 (100.2) 1
177	5.0 - 9.0 % of mass 176	5.2 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 160-275504/4	LCCV6210.D	10/21/2016	09:57
	LCS 160-275504/5	LLCS6211.D	10/21/2016	10:23
	LCSD 160-275504/6	LLCS6212.D	10/21/2016	10:48
	MB 160-275504/8	LBLK6214.D	10/21/2016	11:38
6MW2002	280-89533-1	LSMP6215.D	10/21/2016	12:03
6MW2002MS MS	280-89533-1 MS	LSMP6216.D	10/21/2016	12:28
6MW2002MSD MSD	280-89533-1 MSD	LSMP6217.D	10/21/2016	12:53
6MW2002D	280-89533-2	LSMP6219.D	10/21/2016	13:43
6MW2302	280-89533-3	LSMP6220.D	10/21/2016	14:08
6MW2202	280-89533-4	LSMP6221.D	10/21/2016	14:34
6MW2402	280-89533-5	LSMP6222.D	10/21/2016	14:59
6MW2502	280-89533-6	LSMP6223.D	10/21/2016	15:24
6MW2602	280-89533-7	LSMP6224.D	10/21/2016	15:49
TB03	280-89533-8	LSMP6225.D	10/21/2016	16:14
	CCVC 160-275504/21	LSMP6227.D	10/21/2016	17:04

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1
 SDG No.: _____
 Sample No.: ICIS 160-275235/15 Date Analyzed: 10/20/2016 15:05
 Instrument ID: VMSL GC Column: RTXVMS30 ID: 0.25 (mm)
 Lab File ID (Standard): LIC16167.D Heated Purge: (Y/N) Y
 Calibration ID: 11712

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2656903	8.98	1862300	11.83	951892	13.99
UPPER LIMIT		5313806	9.48	3724600	12.33	1903784	14.49
LOWER LIMIT		1328452	8.48	931150	11.33	475946	13.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 160-275235/17		2879836	8.98	2041416	11.83	1032338	13.99
CCV 160-275504/4		1948933	8.98	1416942	11.83	759342	13.99
LCS 160-275504/5		2072854	8.98	1487241	11.83	776580	13.99
LCSD 160-275504/6		2325843	8.98	1613148	11.83	829669	13.99
MB 160-275504/8		2152741	8.98	1437184	11.83	696820	13.99
280-89533-1	6MW2002	2100451	8.98	1445519	11.83	704116	13.99
280-89533-1 MS	6MW2002MS MS	2245847	8.98	1595453	11.83	841470	13.99
280-89533-1 MSD	6MW2002MSD MSD	2416327	8.98	1723732	11.83	888588	13.99
280-89533-2	6MW2002D	2200982	8.98	1516104	11.83	728762	13.99
280-89533-3	6MW2302	2080856	8.98	1455027	11.83	688360	13.99
280-89533-4	6MW2202	2029442	8.98	1411723	11.83	699062	13.99
280-89533-5	6MW2402	2004226	8.98	1412463	11.83	647329	13.99
280-89533-6	6MW2502	1966320	8.98	1368525	11.83	647338	13.99
280-89533-7	6MW2602	1902528	8.98	1340491	11.83	644502	13.99
280-89533-8	TB03	1899653	8.98	1301647	11.83	614249	13.99
CCVC 160-275504/21		2062765	8.98	1449587	11.83	741652	13.99

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: 6MW2002 Lab Sample ID: 280-89533-1

Matrix: Water Lab File ID: LSMP6215.D

Analysis Method: 8260C DOD Date Collected: 10/11/2016 15:31

Sample wt/vol: 5(mL) Date Analyzed: 10/21/2016 12:03

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	4.3	J	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	1.1	J	10	2.0	0.40
75-15-0	Carbon disulfide	0.86	J	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	4.4	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: 6MW2002 Lab Sample ID: 280-89533-1

Matrix: Water Lab File ID: LSMP6215.D

Analysis Method: 8260C DOD Date Collected: 10/11/2016 15:31

Sample wt/vol: 5 (mL) Date Analyzed: 10/21/2016 12:03

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	3.6	J	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		81-118
460-00-4	4-Bromofluorobenzene (Surr)	110		85-114
1868-53-7	Dibromofluoromethane (Surr)	105		80-119
2037-26-5	Toluene-d8 (Surr)	106		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6215.D
 Lims ID: 280-89533-B-1
 Client ID: 6MW2002
 Sample Type: Client
 Inject. Date: 21-Oct-2016 12:03:30 ALS Bottle#: 6 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0008795-009
 Misc. Info.: 280-89533-b-1
 Operator ID: ADB Instrument ID: VMSL
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 12:46:42 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:29:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.069				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.292				ND	
3 Chloromethane	50		3.404				ND	
4 Vinyl chloride	62	3.558	3.558	0.000	97	53923	3.62	
122 Butadiene	39		3.585				ND	
5 Bromomethane	94	4.158	4.158	0.000	88	8376	1.06	
6 Chloroethane	64		4.382				ND	
7 Trichlorofluoromethane	101		4.619				ND	
123 Dichlorofluoromethane	67		4.731				ND	
8 Ethyl ether	74		5.136				ND	
11 Ethanol	45		5.373				ND	
9 1,1-Dichloroethene	96		5.443				ND	
10 Carbon disulfide	76	5.485	5.485	0.000	99	34256	0.8613	
12 1,1,2-Trichloro-1,2,2-trif	151		5.499				ND	
13 Iodomethane	142		5.666				ND	
S 26 1,2-Dichloroethene, Total	96				0		4.42	
14 Acrolein	56		5.932				ND	
15 3-Chloro-1-propene	39		6.099				ND	
16 Isopropyl alcohol	45	6.127	6.127	0.000	94	5631	22.5	
17 Methylene Chloride	84		6.239				ND	
18 Acetone	43		6.309				ND	
19 trans-1,2-Dichloroethene	96		6.449				ND	
20 Methyl acetate	74		6.449				ND	
21 Hexane	86		6.518				ND	
22 Methyl tert-butyl ether	73		6.560				ND	
24 Acetonitrile	41		6.882				ND	
25 Isopropyl ether	45		6.993				ND	
23 2-Methyl-2-propanol	59		6.993				ND	
27 2-Chloro-1,3-butadiene	53		7.133				ND	
28 1,1-Dichloroethane	63		7.161				ND	
29 Acrylonitrile	53		7.231				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		7.384				ND	
31 Vinyl acetate	43		7.412				ND	
32 cis-1,2-Dichloroethene	96	7.748	7.747	0.001	78	48836	4.42	
33 2,2-Dichloropropane	77		7.859				ND	
35 Chlorobromomethane	128		7.957				ND	
34 Cyclohexane	84		7.957				ND	
36 Chloroform	83		8.013				ND	
39 Ethyl acetate	45		8.097				ND	
37 Carbon tetrachloride	117		8.166				ND	
38 Tetrahydrofuran	71		8.180				ND	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.194	0.000	94	428716	52.6	
40 1,1,1-Trichloroethane	97		8.236				ND	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	98	8980	4.28	
42 1,1-Dichloropropene	75		8.348				ND	
125 Isooctane	57		8.432				ND	
117 n-Heptane	43		8.502				ND	
44 Benzene	78		8.599				ND	
45 Propionitrile	54		8.613				ND	
46 Methacrylonitrile	41		8.627				ND	
48 Tert-amyl methyl ether	73		8.655				ND	
50 Isobutyl alcohol	42		8.725				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	94	453666	51.2	
49 1,2-Dichloroethane	62		8.781				ND	
* 51 Fluorobenzene	96	8.977	8.976	0.001	99	2100451	50.0	
118 1,4-Difluorobenzene	114		9.130				ND	
52 Methylcyclohexane	55		9.130				ND	
53 Trichloroethene	95		9.130				ND	
54 n-Butanol	56		9.368				ND	
55 Dibromomethane	93		9.549				ND	
124 Ethyl acrylate	55		9.563				ND	
56 1,2-Dichloropropane	63		9.633				ND	
57 Dichlorobromomethane	83		9.661				ND	
58 Methyl methacrylate	69		9.759				ND	
59 1,4-Dioxane	88		9.842				ND	
60 2-Chloroethyl vinyl ether	63		10.136				ND	
61 cis-1,3-Dichloropropene	75		10.233				ND	
128 2-Pentanone	43		10.253				ND	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	1929218	53.2	
63 Toluene	92	10.443	10.443	0.000	26	3736	0.1338	
64 2-Nitropropane	43		10.666				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.750				ND	
67 trans-1,3-Dichloropropene	75		10.806				ND	
65 Tetrachloroethene	164		10.806				ND	
69 Ethyl methacrylate	69		10.890				ND	
68 1,1,2-Trichloroethane	83		10.960				ND	
70 Chlorodibromomethane	129		11.141				ND	
71 1,3-Dichloropropane	76		11.225				ND	
119 n-Butyl acetate	43		11.365				ND	
72 Ethylene Dibromide	107		11.393				ND	
74 2-Hexanone	43		11.490				ND	
S 73 1,3-Dichloropropene, Total	75		11.620				ND	
75 1-Chlorohexane	91		11.756				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
78 Ethylbenzene	91		11.826				ND	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	86	1445519	50.0	
77 Chlorobenzene	112		11.840				ND	
79 1,1,1,2-Tetrachloroethane	131		11.881				ND	
80 m-Xylene & p-Xylene	106		11.951				ND	
82 o-Xylene	106		12.356				ND	
83 Styrene	104		12.398				ND	
84 Bromoform	173		12.468				ND	
85 Isopropylbenzene	105		12.622				ND	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	93	639257	55.0	
88 N-Propylbenzene	91		13.013				ND	
87 Bromobenzene	156		13.055				ND	
89 1,1,2,2-Tetrachloroethane	83		13.083				ND	
91 1,3,5-Trimethylbenzene	105		13.180				ND	
90 2-Chlorotoluene	91		13.194				ND	
92 1,2,3-Trichloropropane	110		13.236				ND	
93 trans-1,4-Dichloro-2-buten	53		13.250				ND	
94 Cyclohexanone	55		13.320				ND	
95 4-Chlorotoluene	91		13.348				ND	
96 tert-Butylbenzene	119		13.502				ND	
81 Pentachloroethane	167		13.557				ND	
97 1,2,4-Trimethylbenzene	105		13.557				ND	
98 sec-Butylbenzene	105		13.669				ND	
99 4-Isopropyltoluene	119		13.781				ND	
100 1,3-Dichlorobenzene	146		13.934				ND	
120 1,2,3-Trimethylbenzene	105		13.990				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.990	0.000	96	704116	50.0	
102 1,4-Dichlorobenzene	146		14.004				ND	
103 n-Butylbenzene	134		14.200				ND	
121 Benzyl chloride	126		14.242				ND	
104 1,2-Dichlorobenzene	146		14.437				ND	
106 n-Nonyl Aldehyde	57		15.150				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.219				ND	
107 1,3,5-Trichlorobenzene	180		15.233				ND	
108 Hexachlorobutadiene	225		15.820				ND	
109 1,2,4-Trichlorobenzene	180		15.890				ND	
110 Naphthalene	128		16.239				ND	
111 1,2,3-Trichlorobenzene	180		16.434				ND	
S 112 Xylenes, Total	106		16.500				ND	
126 C6-C12	1		0.000				ND	
S 113 Trihalomethanes, Total	1		0.000				ND	
127 2-Methylpentane	1		0.000				ND	

Reagents:

I.S. Working_00138
8260 Surr 25_00066

Amount Added: 10.00
Amount Added: 10.00

Units: uL
Units: uL

Run Reagent
Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6215.D

Injection Date: 21-Oct-2016 12:03:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: 280-89533-B-1

Lab Sample ID: 160-89533-1

Worklist Smp#: 9

Client ID: 6MW2002

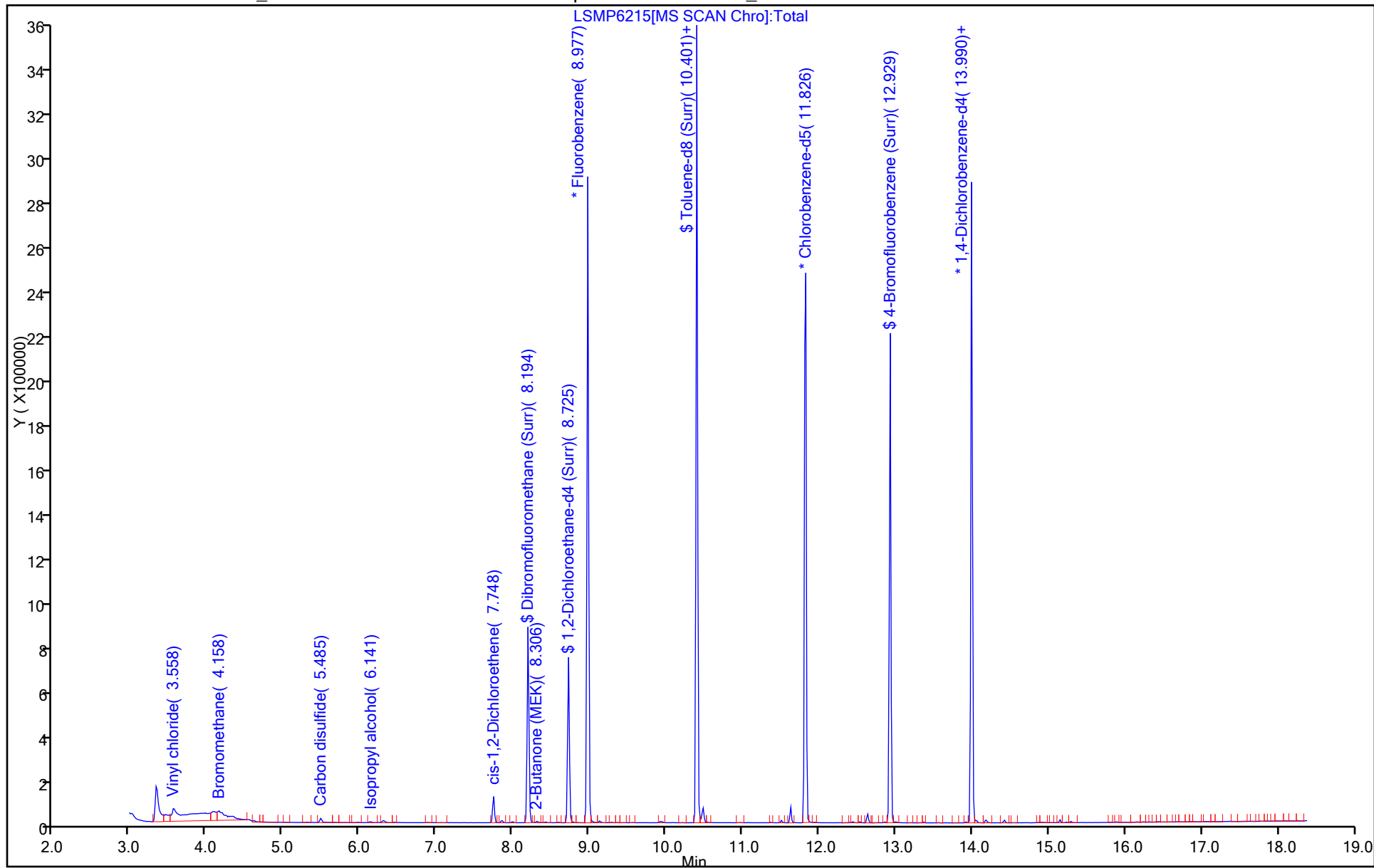
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSP6215.D
Lims ID: 280-89533-B-1
Client ID: 6MW2002
Sample Type: Client
Inject. Date: 21-Oct-2016 12:03:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0008795-009
Misc. Info.: 280-89533-b-1
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 24-Oct-2016 12:46:42 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN

Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:29:54

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	52.6	105.27
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.2	102.43
\$ 62 Toluene-d8 (Surr)	50.0	53.2	106.38
\$ 86 4-Bromofluorobenzene (Surr)	50.0	55.0	110.06

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6215.D

Injection Date: 21-Oct-2016 12:03:30

Instrument ID: VMSL

Lims ID: 280-89533-B-1

Lab Sample ID: 160-89533-1

Client ID: 6MW2002

Operator ID: ADB

ALS Bottle#: 6

Worklist Smp#: 9

Purge Vol: 5.000 mL

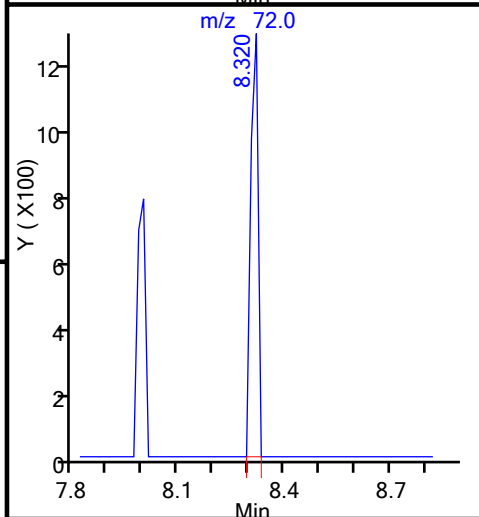
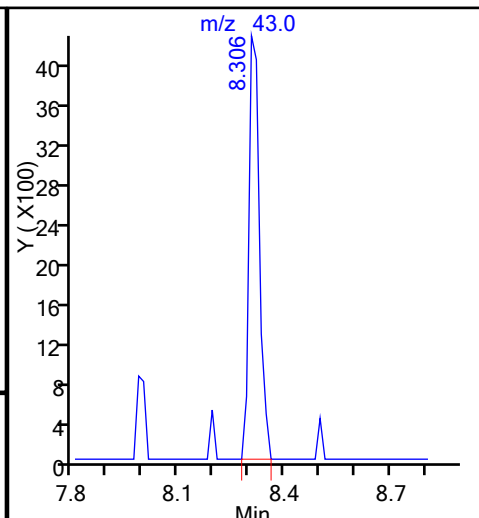
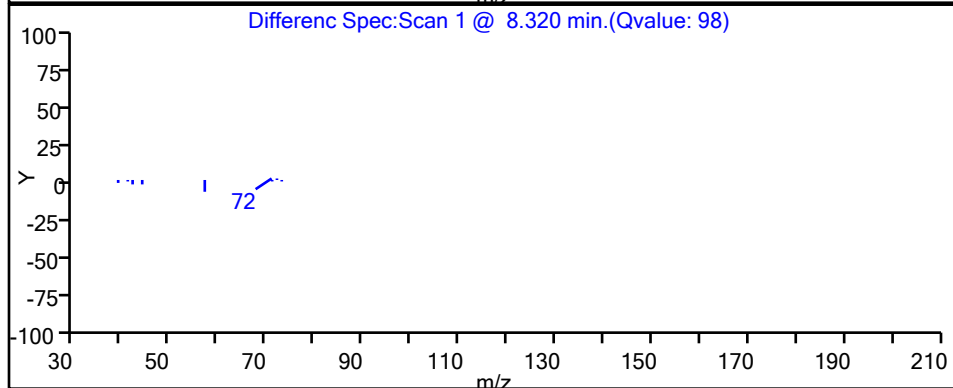
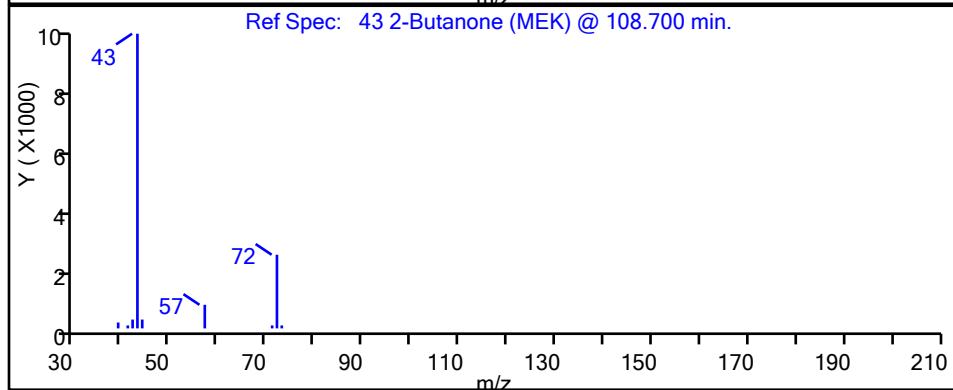
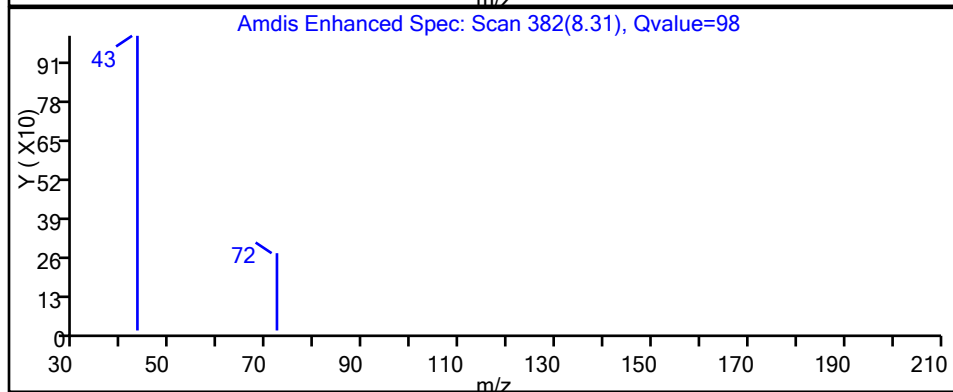
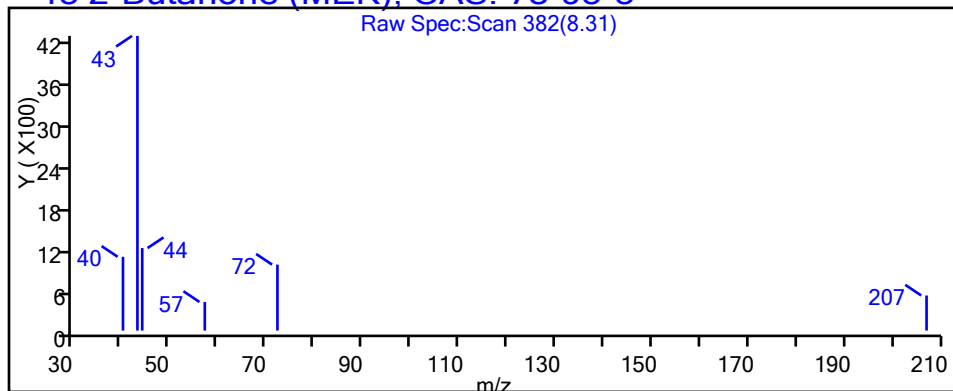
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

43 2-Butanone (MEK). CAS: 78-93-3

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6215.D

Injection Date: 21-Oct-2016 12:03:30

Instrument ID: VMSL

Lims ID: 280-89533-B-1

Lab Sample ID: 160-89533-1

Client ID: 6MW2002

Operator ID: ADB

ALS Bottle#: 6

Worklist Smp#: 9

Purge Vol: 5.000 mL

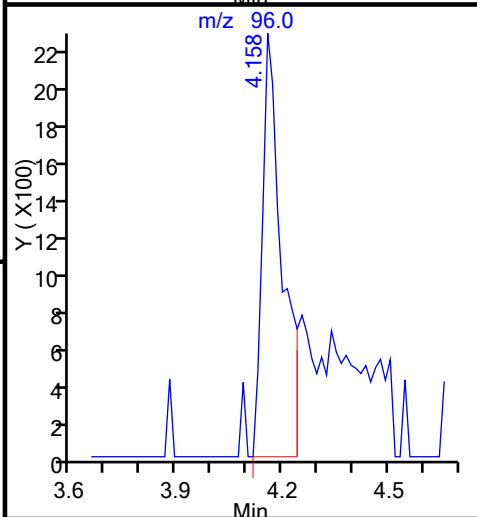
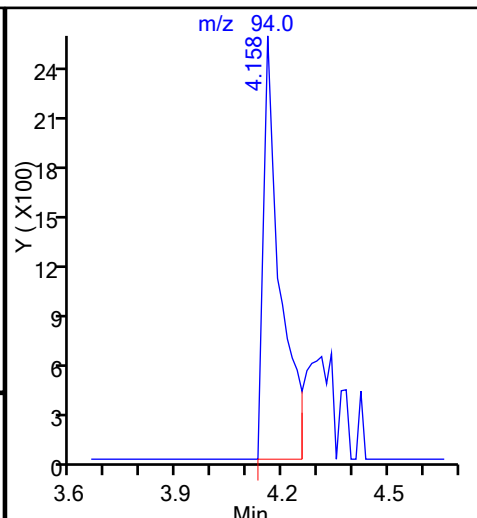
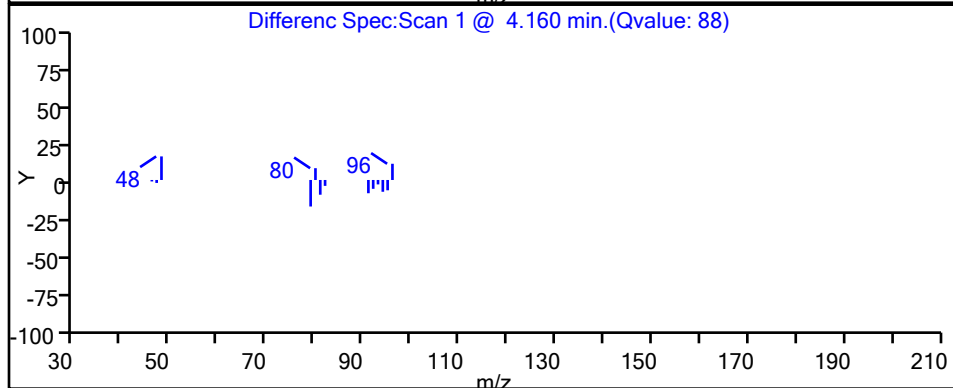
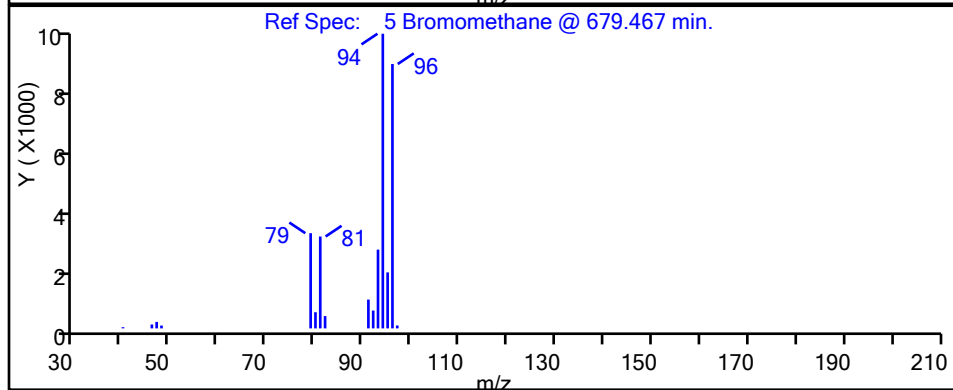
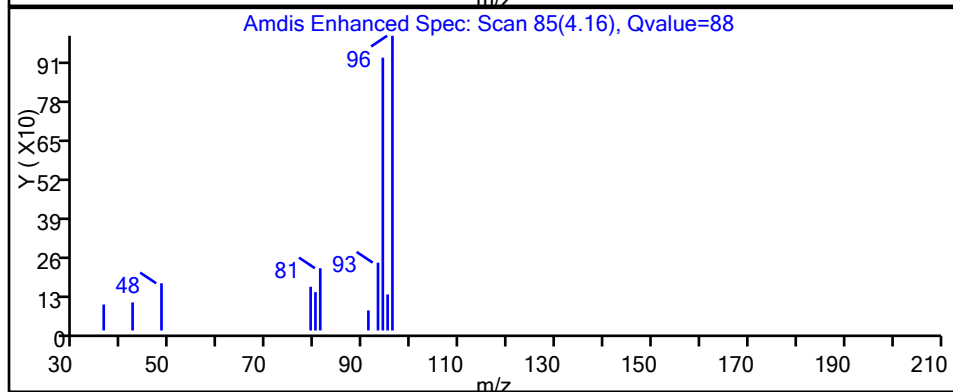
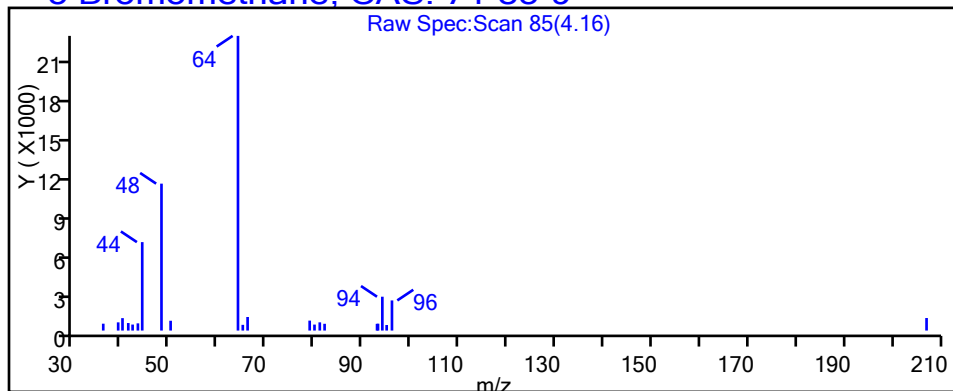
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

5 Bromomethane, CAS: 74-83-9

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6215.D

Injection Date: 21-Oct-2016 12:03:30

Instrument ID: VMSL

Lims ID: 280-89533-B-1

Lab Sample ID: 160-89533-1

Client ID: 6MW2002

Operator ID: ADB

ALS Bottle#: 6

Worklist Smp#: 9

Purge Vol: 5.000 mL

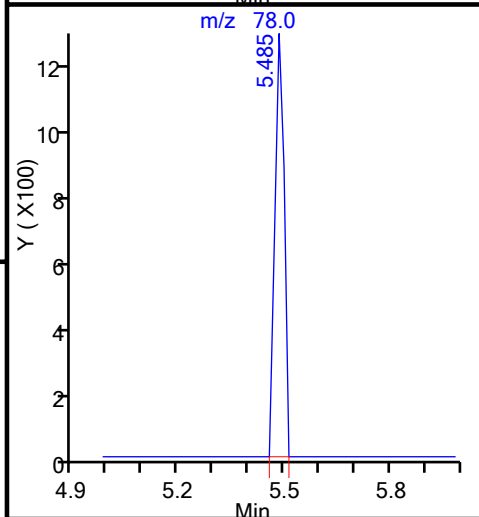
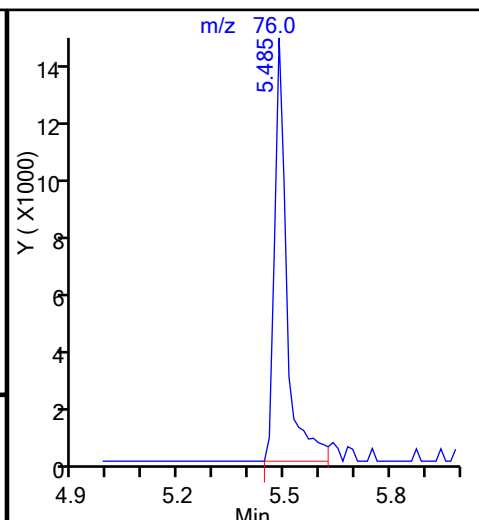
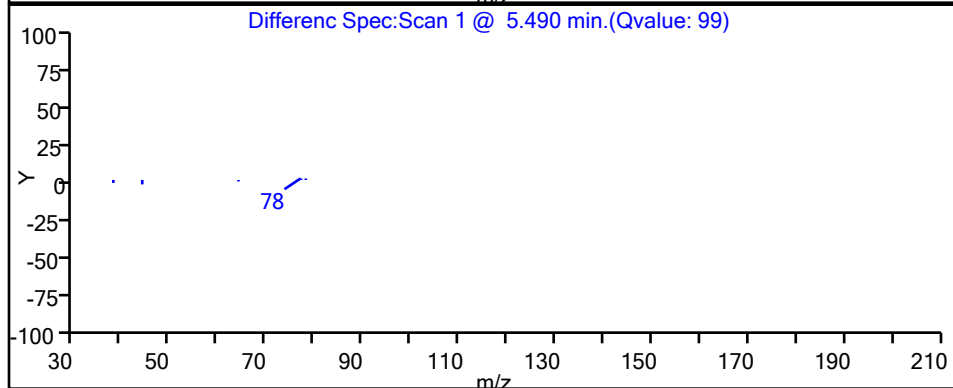
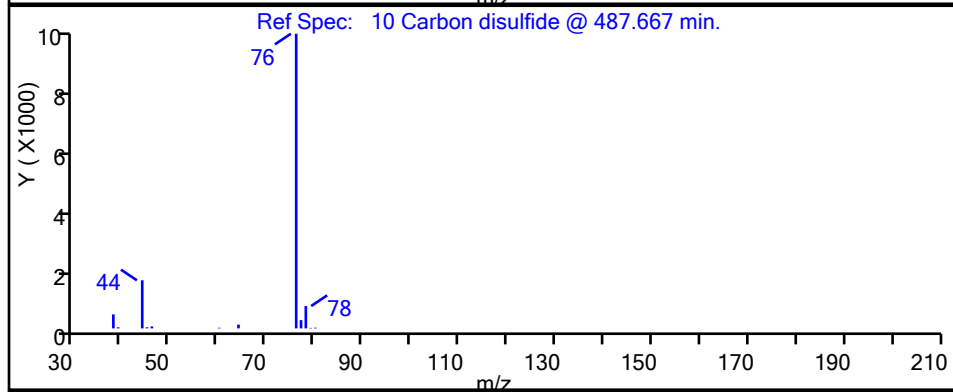
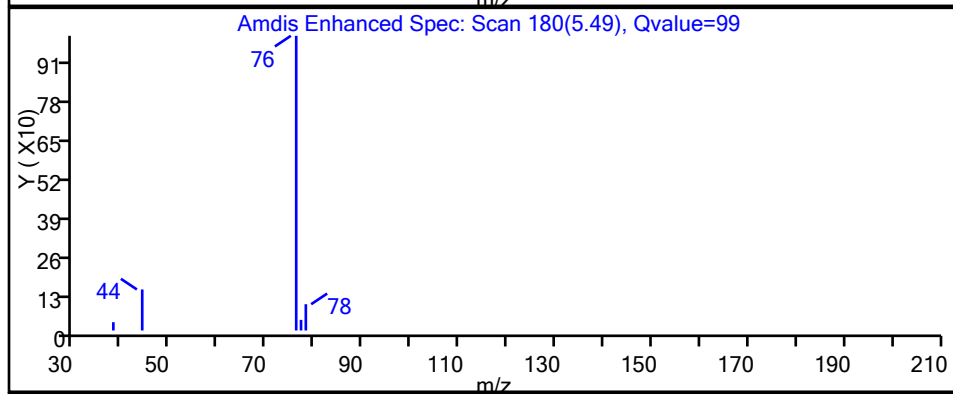
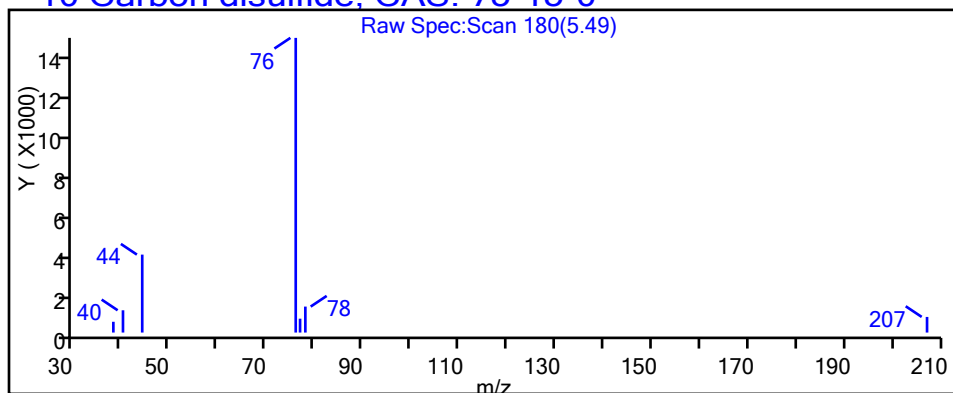
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

10 Carbon disulfide, CAS: 75-15-0

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6215.D

Injection Date: 21-Oct-2016 12:03:30

Instrument ID: VMSL

Lims ID: 280-89533-B-1

Lab Sample ID: 160-89533-1

Client ID: 6MW2002

Operator ID: ADB

ALS Bottle#: 6

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

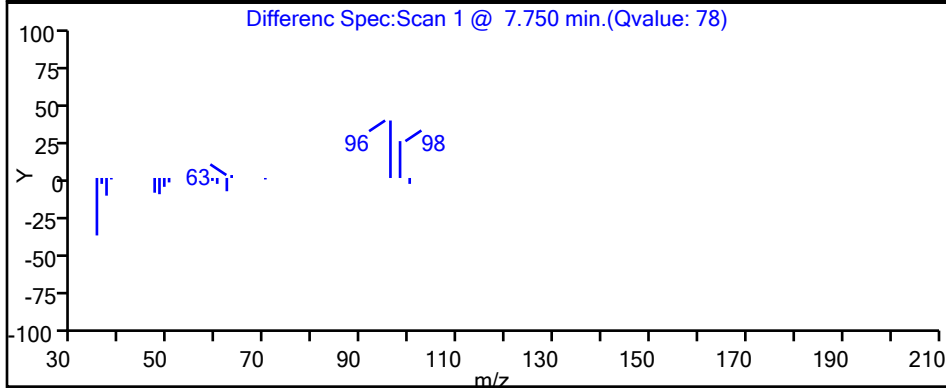
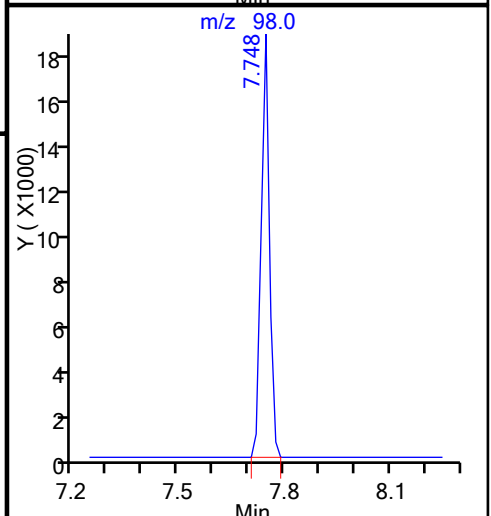
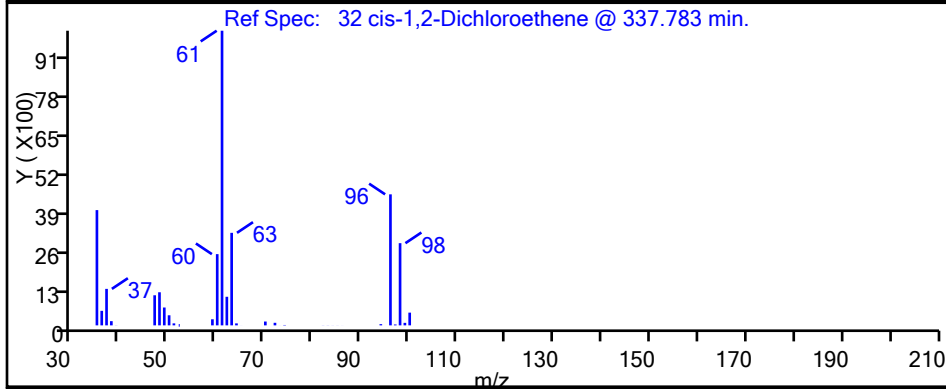
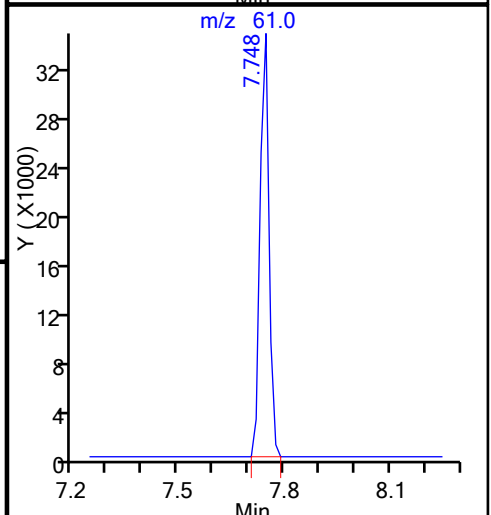
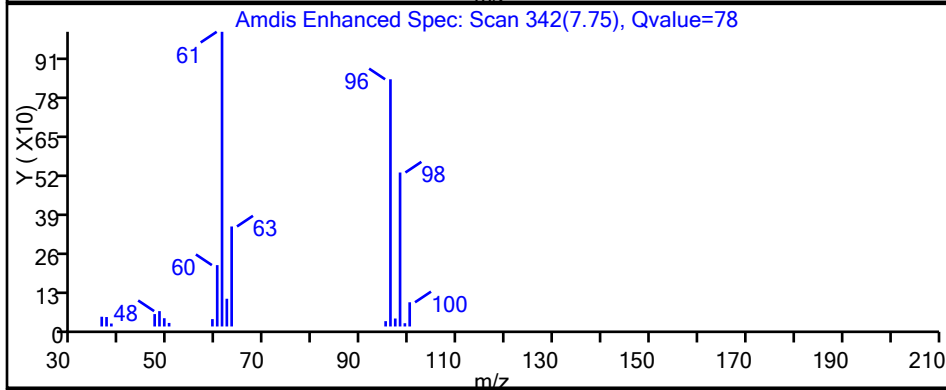
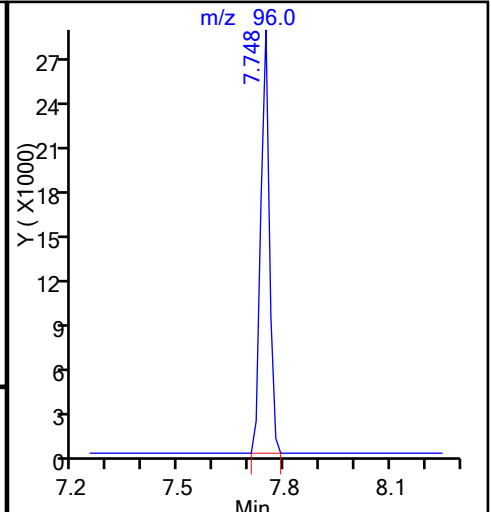
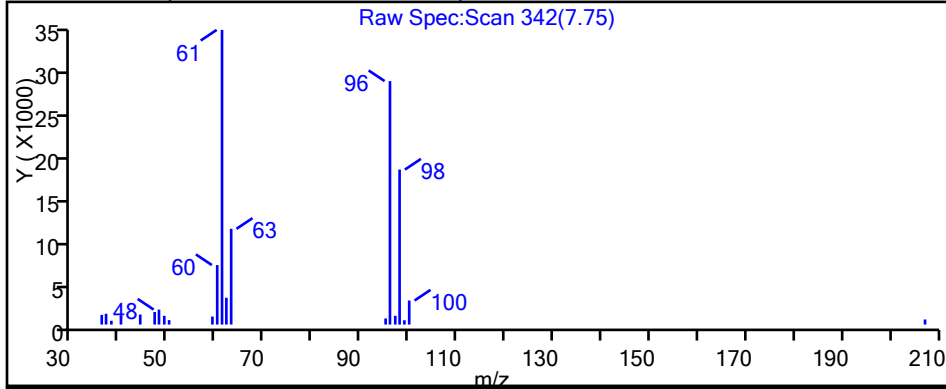
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6215.D

Injection Date: 21-Oct-2016 12:03:30

Instrument ID: VMSL

Lims ID: 280-89533-B-1

Lab Sample ID: 160-89533-1

Client ID: 6MW2002

Operator ID: ADB

ALS Bottle#: 6

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

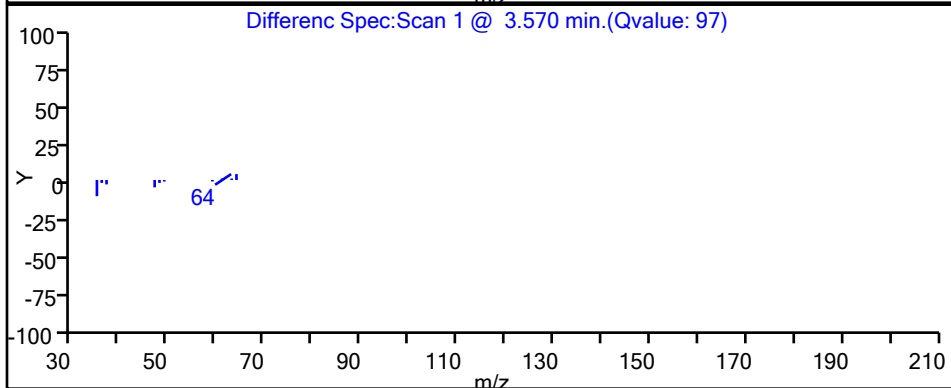
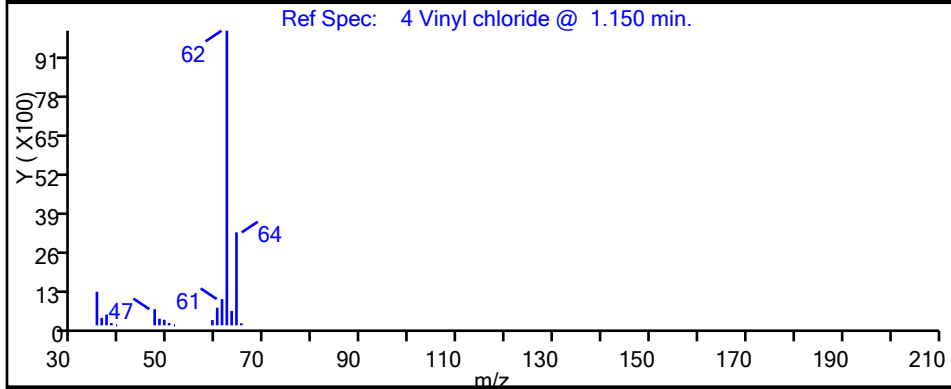
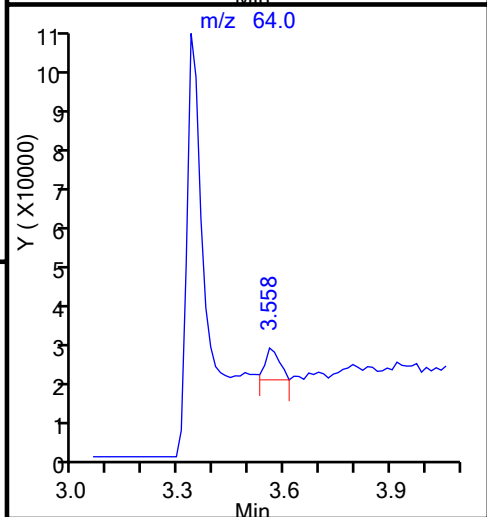
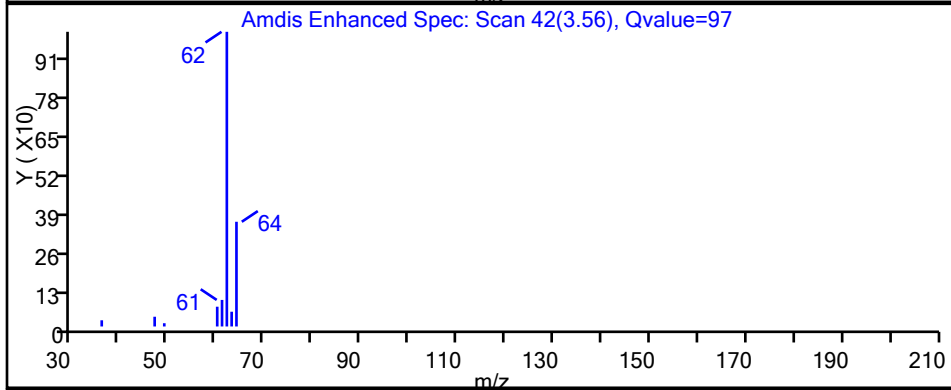
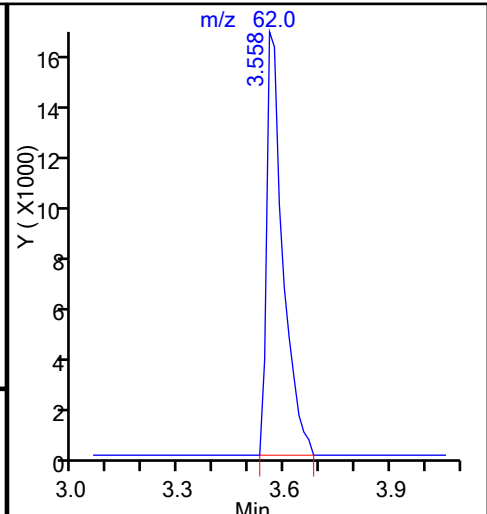
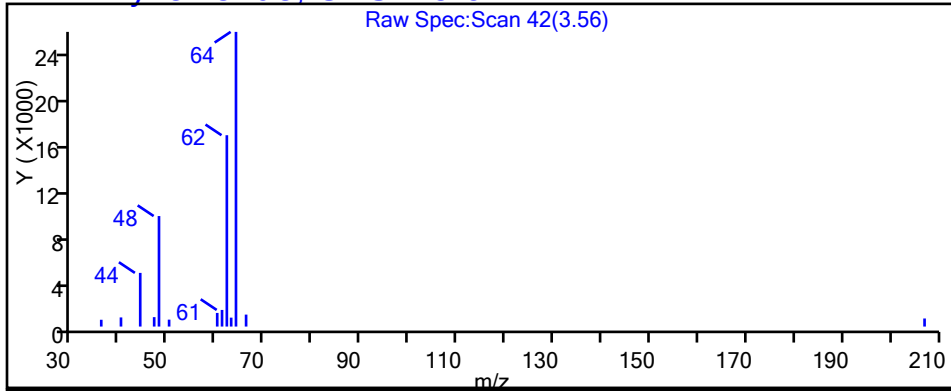
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: 6MW2002D Lab Sample ID: 280-89533-2

Matrix: Water Lab File ID: LSMP6219.D

Analysis Method: 8260C DOD Date Collected: 10/11/2016 15:31

Sample wt/vol: 5(mL) Date Analyzed: 10/21/2016 13:43

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	8.8	J	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	1.6	J	10	2.0	0.40
75-15-0	Carbon disulfide	0.66	J	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	3.9	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica St. Louis</u>	Job No.: <u>280-89533-1</u>
SDG No.: _____	
Client Sample ID: <u>6MW2002D</u>	Lab Sample ID: <u>280-89533-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>LSMP6219.D</u>
Analysis Method: <u>8260C DOD</u>	Date Collected: <u>10/11/2016 15:31</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>10/21/2016 13:43</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RTXVMS30</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275504</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	4.1	J	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		81-118
460-00-4	4-Bromofluorobenzene (Surr)	111		85-114
1868-53-7	Dibromofluoromethane (Surr)	102		80-119
2037-26-5	Toluene-d8 (Surr)	103		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6219.D
 Lims ID: 280-89533-A-2
 Client ID: 6MW2002D
 Sample Type: Client
 Inject. Date: 21-Oct-2016 13:43:30 ALS Bottle#: 10 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0008795-012
 Misc. Info.: 280-89533-a-2
 Operator ID: ADB Instrument ID: VMSL
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 11:50:18 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:32:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.055				ND	
3 Chloromethane	50		3.404				ND	
4 Vinyl chloride	62	3.558	3.558	0.000	97	63862	4.09	
5 Bromomethane	94	4.158	4.158	0.000	91	13695	1.65	
6 Chloroethane	64		4.382				ND	
7 Trichlorofluoromethane	101		4.619				ND	
9 1,1-Dichloroethene	96		5.443				ND	
10 Carbon disulfide	76	5.485	5.485	0.000	98	27355	0.6564	
17 Methylene Chloride	84		6.239				ND	
18 Acetone	43	6.309	6.309	0.000	100	12981	3.30	
19 trans-1,2-Dichloroethene	96		6.449				ND	
22 Methyl tert-butyl ether	73		6.560				ND	
28 1,1-Dichloroethane	63		7.161				ND	
32 cis-1,2-Dichloroethene	96	7.748	7.748	0.000	80	45469	3.93	
33 2,2-Dichloropropane	77		7.859				ND	
35 Chlorobromomethane	128		7.957				ND	
36 Chloroform	83		8.013				ND	
37 Carbon tetrachloride	117		8.167				ND	
\$ 41 Dibromofluoromethane (Surr	113	8.195	8.195	0.001	94	433666	50.8	
40 1,1,1-Trichloroethane	97		8.236				ND	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	99	19359	8.81	
42 1,1-Dichloropropene	75		8.348				ND	
44 Benzene	78		8.600				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	94	453686	48.9	
49 1,2-Dichloroethane	62		8.795				ND	
* 51 Fluorobenzene	96	8.977	8.977	0.000	99	2200982	50.0	
53 Trichloroethene	95		9.130				ND	
55 Dibromomethane	93		9.549				ND	
56 1,2-Dichloropropane	63		9.633				ND	
57 Dichlorobromomethane	83		9.661				ND	
61 cis-1,3-Dichloropropene	75		10.234				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	1960799	51.5	
63 Toluene	92	10.443	10.443	0.000	30	4318	0.1475	
66 4-Methyl-2-pentanone (MIBK)	43		10.750				ND	
67 trans-1,3-Dichloropropene	75		10.806				ND	
65 Tetrachloroethene	164		10.806				ND	
68 1,1,2-Trichloroethane	83		10.960				ND	
70 Chlorodibromomethane	129		11.141				ND	
71 1,3-Dichloropropane	76		11.225				ND	
72 Ethylene Dibromide	107		11.393				ND	
74 2-Hexanone	43		11.491				ND	
78 Ethylbenzene	91		11.826				ND	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	86	1516104	50.0	
77 Chlorobenzene	112		11.840				ND	
79 1,1,1,2-Tetrachloroethane	131		11.882				ND	
80 m-Xylene & p-Xylene	106		11.951				ND	
82 o-Xylene	106		12.356				ND	
83 Styrene	104		12.398				ND	
84 Bromoform	173		12.468				ND	
85 Isopropylbenzene	105		12.622				ND	
\$ 86 4-Bromofluorobenzene (Surr)	95	12.929	12.929	0.000	92	666863	55.5	
88 N-Propylbenzene	91		13.013				ND	
87 Bromobenzene	156		13.055				ND	
89 1,1,2,2-Tetrachloroethane	83		13.083				ND	
91 1,3,5-Trimethylbenzene	105		13.180				ND	
90 2-Chlorotoluene	91		13.194				ND	
92 1,2,3-Trichloropropane	110		13.236				ND	
95 4-Chlorotoluene	91		13.348				ND	
96 tert-Butylbenzene	119		13.502				ND	
97 1,2,4-Trimethylbenzene	105		13.558				ND	
98 sec-Butylbenzene	105		13.669				ND	
99 4-Isopropyltoluene	119		13.781				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.991	13.991	0.001	96	728762	50.0	
103 n-Butylbenzene	134		14.200				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.220				ND	
110 Naphthalene	128		16.239				ND	
111 1,2,3-Trichlorobenzene	180		16.435				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

I.S. Working_00138
8260 Surr 25_00066

Amount Added: 10.00
Amount Added: 10.00

Units: uL
Units: uL

Run Reagent
Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6219.D

Injection Date: 21-Oct-2016 13:43:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: 280-89533-A-2

Lab Sample ID: 160-89533-2

Worklist Smp#: 12

Client ID: 6MW2002D

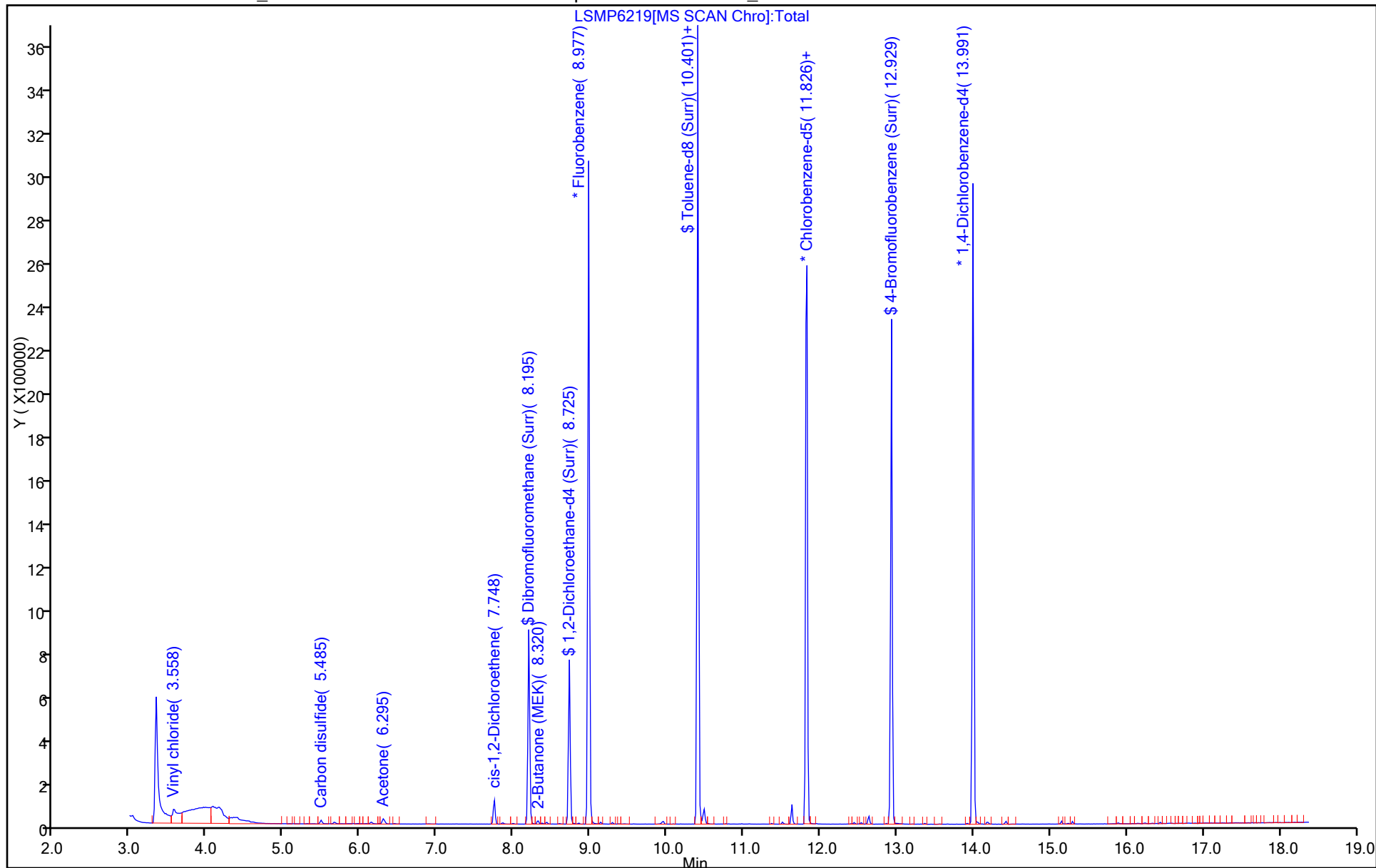
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6219.D
Lims ID: 280-89533-A-2
Client ID: 6MW2002D
Sample Type: Client
Inject. Date: 21-Oct-2016 13:43:30 ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0008795-012
Misc. Info.: 280-89533-a-2
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 24-Oct-2016 11:50:18 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN

Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:32:25

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	50.8	101.62
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	48.9	97.75
\$ 62 Toluene-d8 (Surr)	50.0	51.5	103.09
\$ 86 4-Bromofluorobenzene (Surr)	50.0	55.5	110.93

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6219.D

Injection Date: 21-Oct-2016 13:43:30

Instrument ID: VMSL

Lims ID: 280-89533-A-2

Lab Sample ID: 160-89533-2

Client ID: 6MW2002D

Operator ID: ADB

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

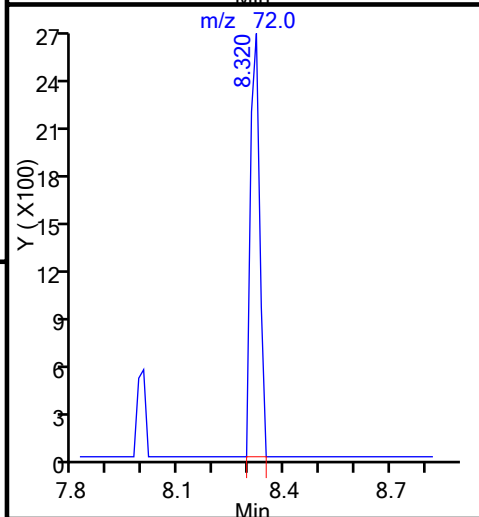
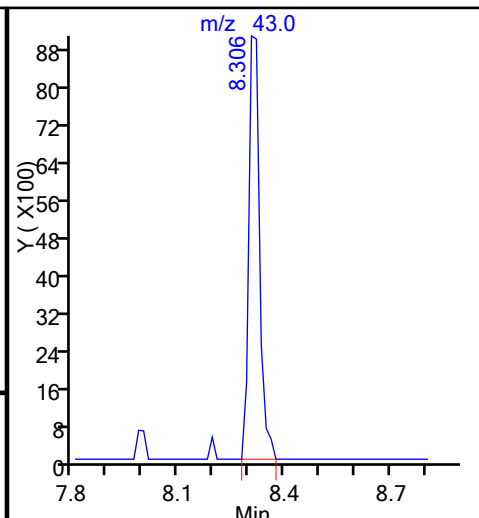
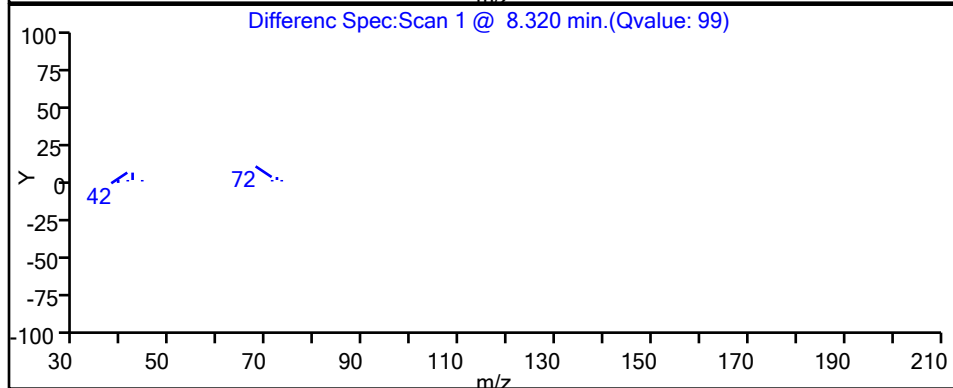
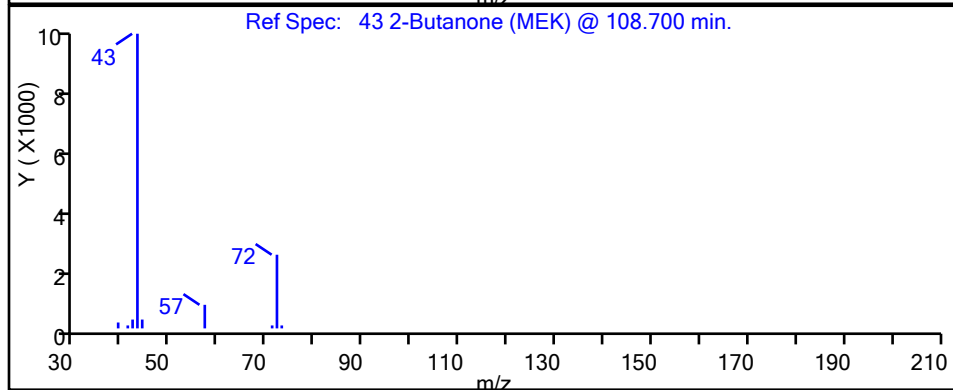
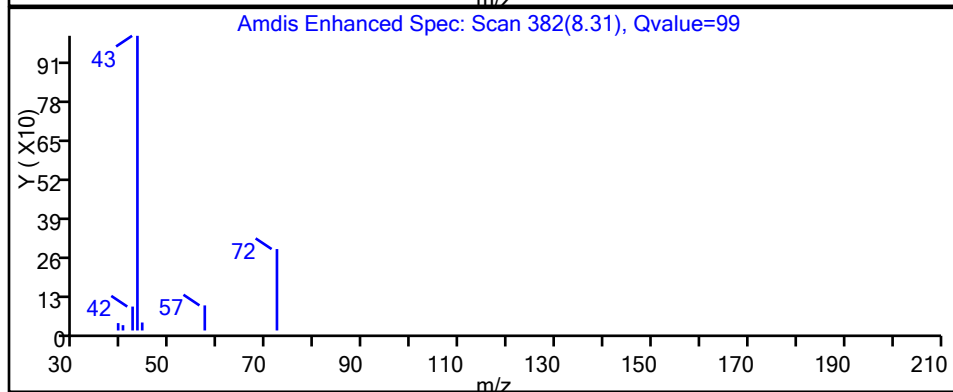
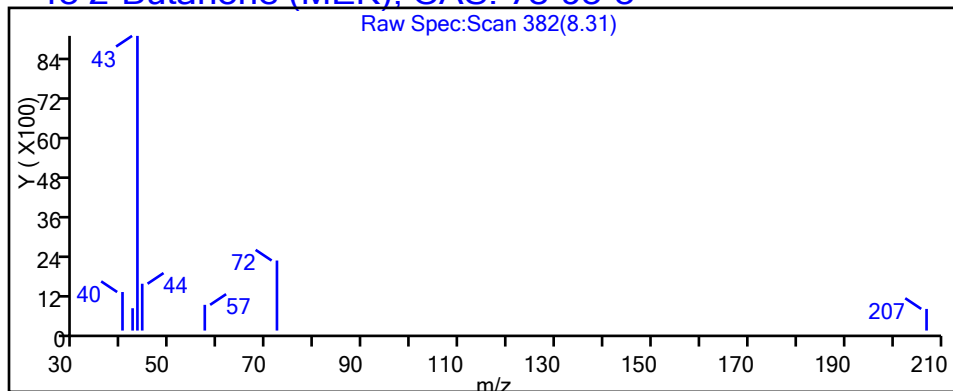
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

43 2-Butanone (MEK). CAS: 78-93-3

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6219.D

Injection Date: 21-Oct-2016 13:43:30

Instrument ID: VMSL

Lims ID: 280-89533-A-2

Lab Sample ID: 160-89533-2

Client ID: 6MW2002D

Operator ID: ADB

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

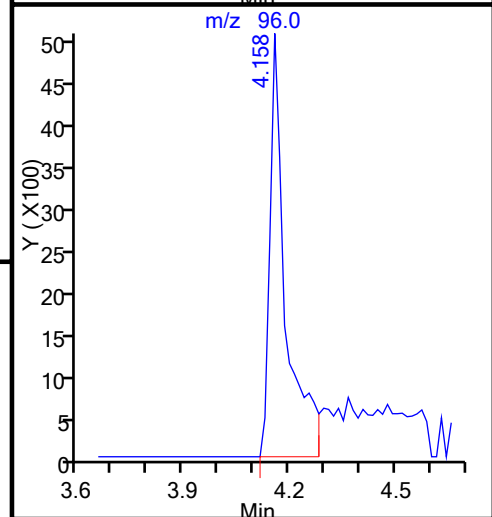
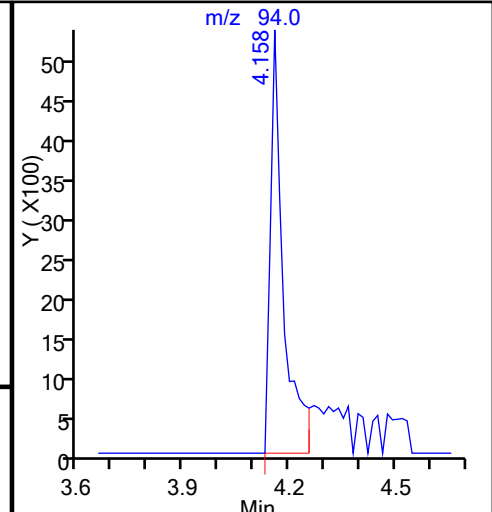
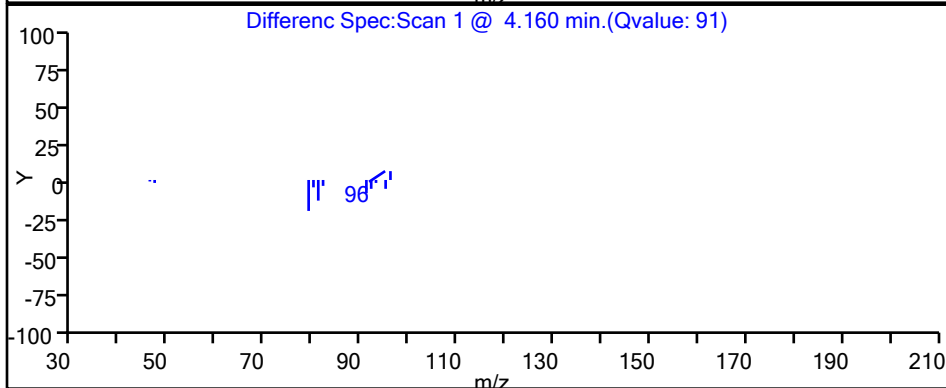
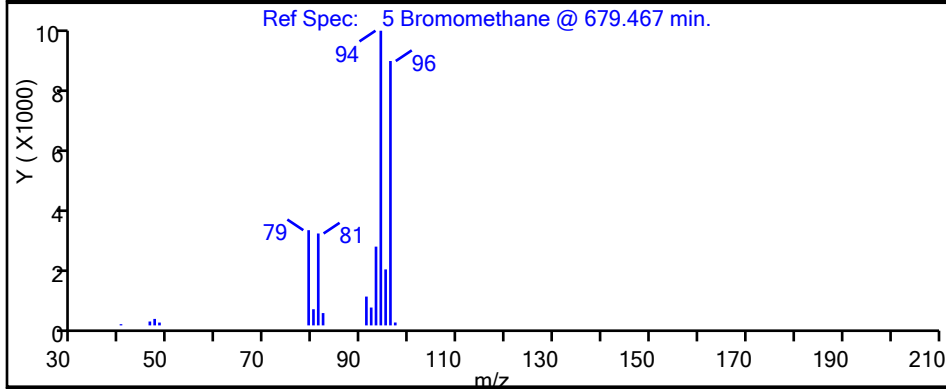
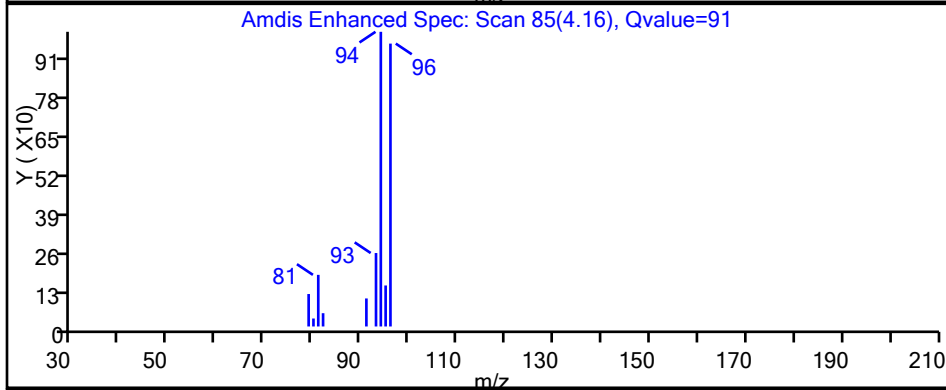
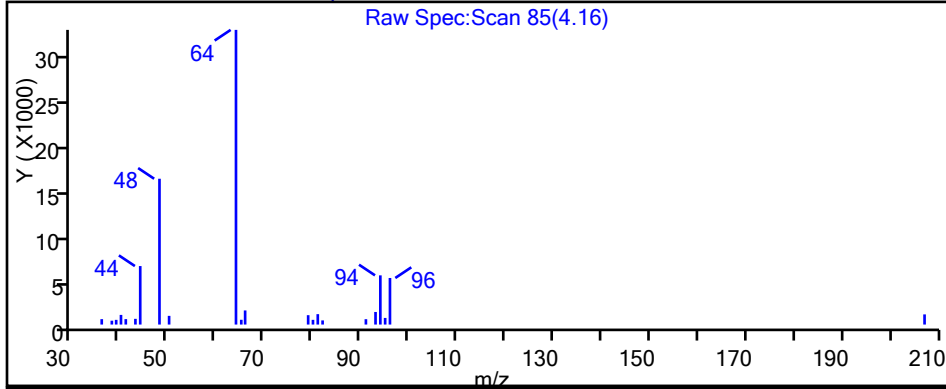
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

5 Bromomethane, CAS: 74-83-9

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6219.D

Injection Date: 21-Oct-2016 13:43:30

Instrument ID: VMSL

Lims ID: 280-89533-A-2

Lab Sample ID: 160-89533-2

Client ID: 6MW2002D

Operator ID: ADB

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

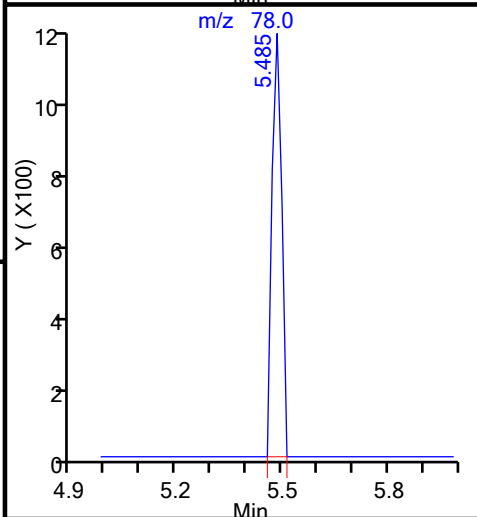
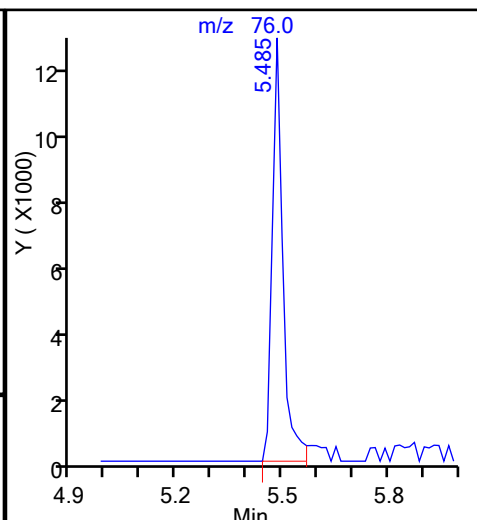
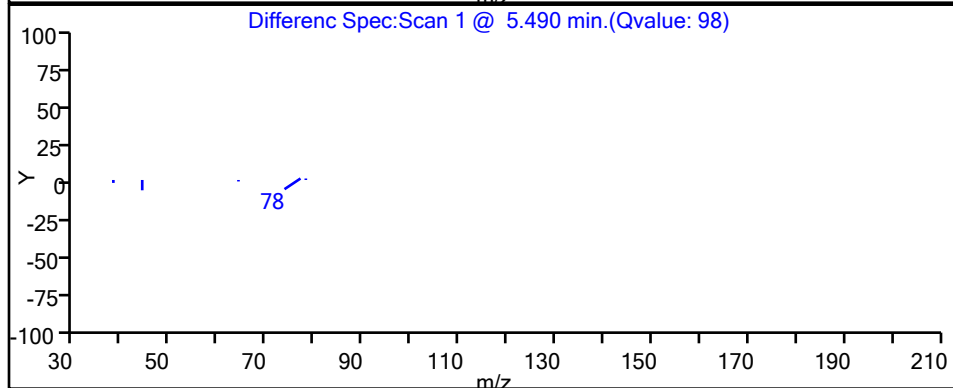
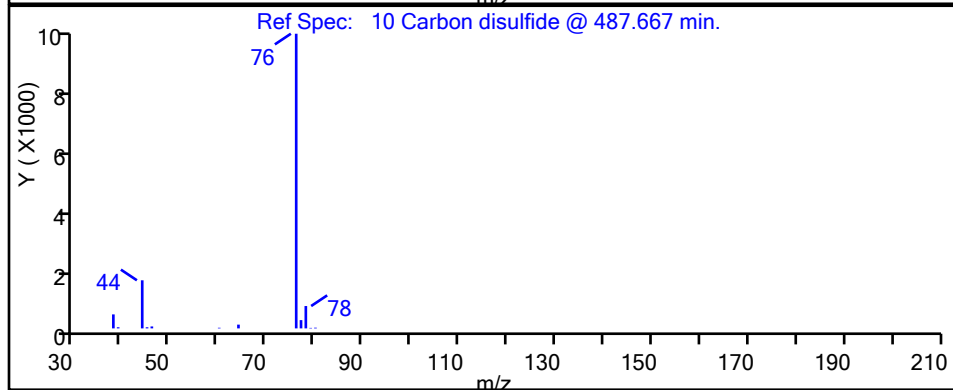
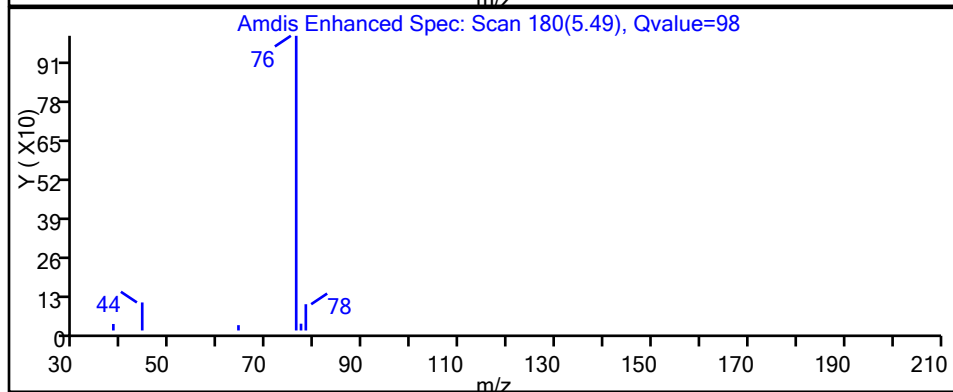
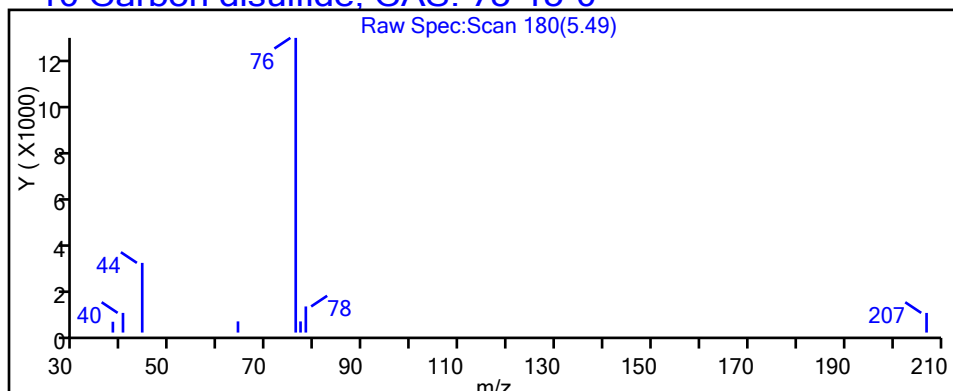
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

10 Carbon disulfide, CAS: 75-15-0

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6219.D

Injection Date: 21-Oct-2016 13:43:30

Instrument ID: VMSL

Lims ID: 280-89533-A-2

Lab Sample ID: 160-89533-2

Client ID: 6MW2002D

Operator ID: ADB

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

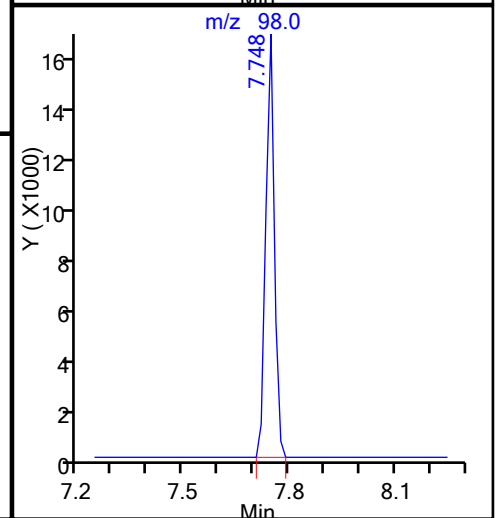
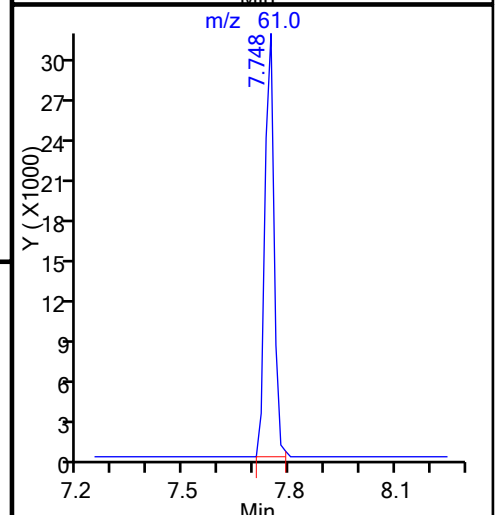
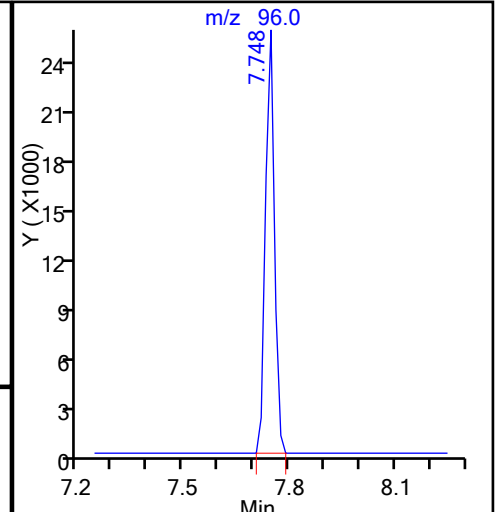
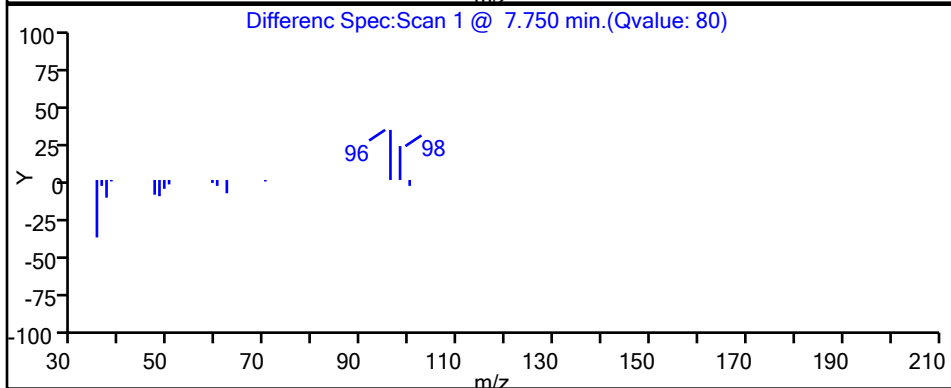
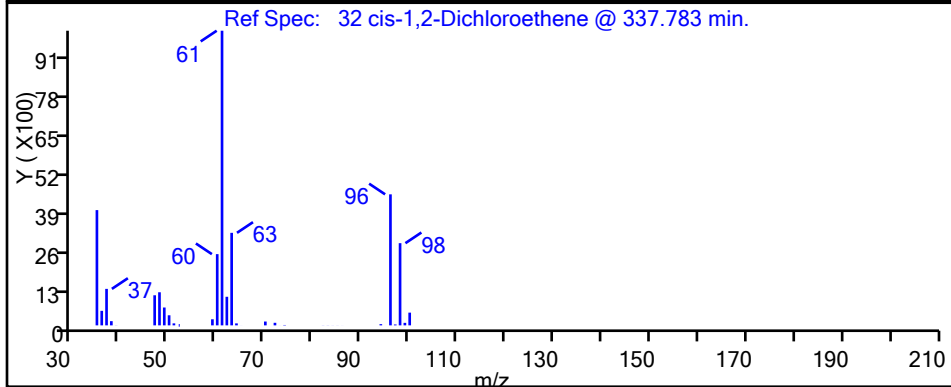
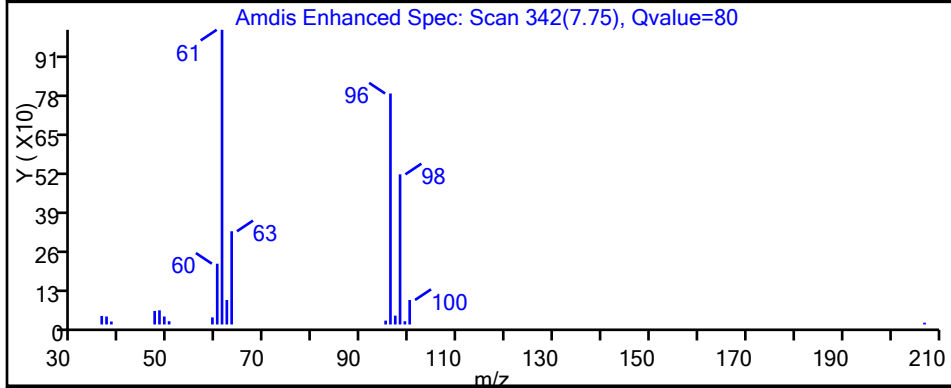
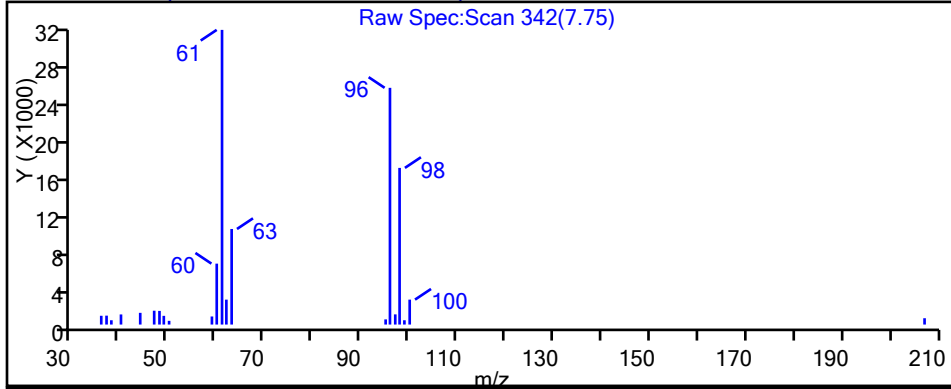
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6219.D

Injection Date: 21-Oct-2016 13:43:30

Instrument ID: VMSL

Lims ID: 280-89533-A-2

Lab Sample ID: 160-89533-2

Client ID: 6MW2002D

Operator ID: ADB

ALS Bottle#: 10

Worklist Smp#: 12

Purge Vol: 5.000 mL

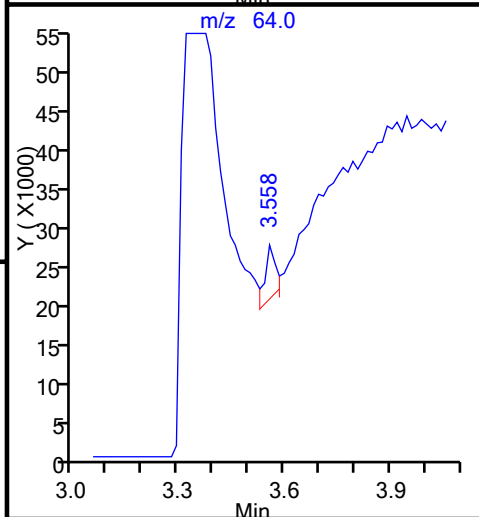
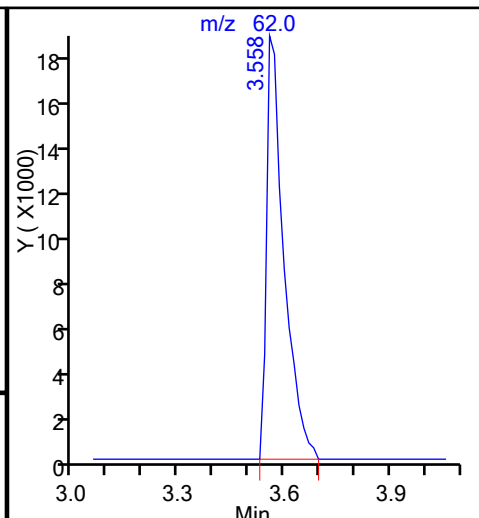
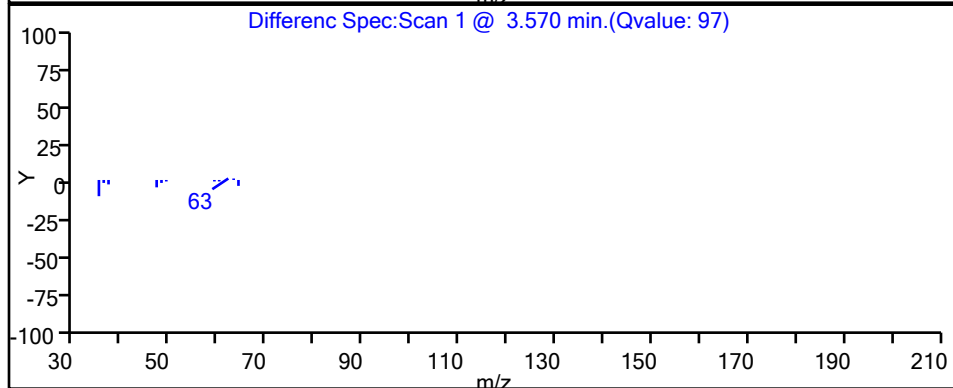
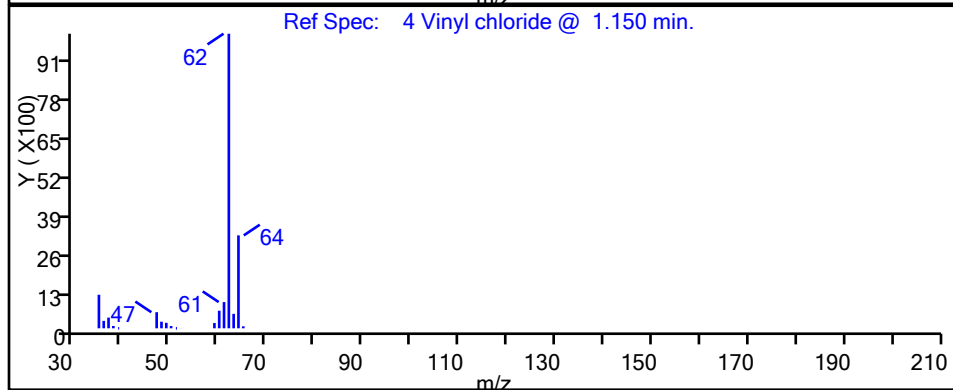
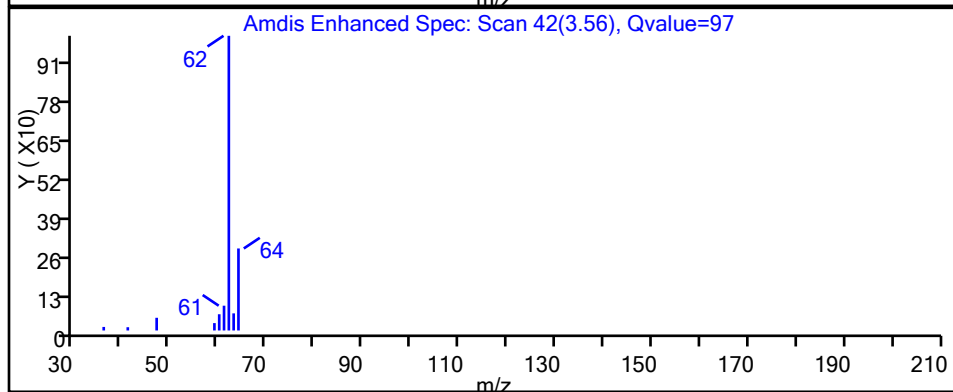
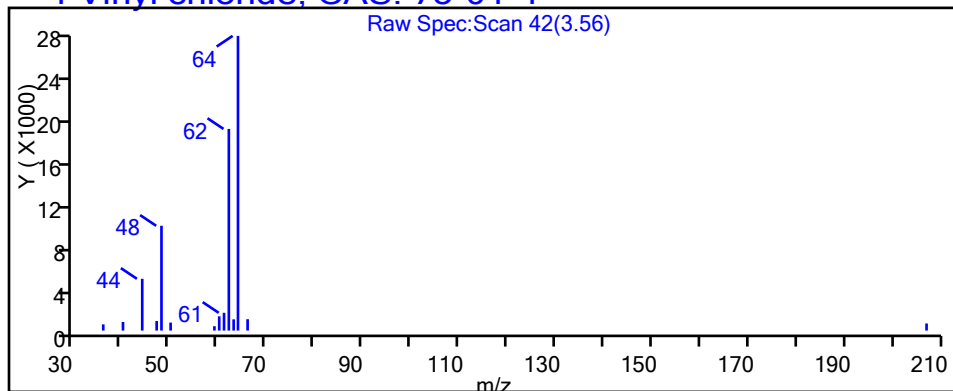
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: 6MW2302 Lab Sample ID: 280-89533-3

Matrix: Water Lab File ID: LSMP6220.D

Analysis Method: 8260C DOD Date Collected: 10/11/2016 12:51

Sample wt/vol: 5(mL) Date Analyzed: 10/21/2016 14:08

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	15	J	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	16	J	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	1.7	J	10	2.0	0.40
75-15-0	Carbon disulfide	0.46	J	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.3	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica St. Louis</u>	Job No.: <u>280-89533-1</u>
SDG No.: _____	
Client Sample ID: <u>6MW2302</u>	Lab Sample ID: <u>280-89533-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>LSMP6220.D</u>
Analysis Method: <u>8260C DOD</u>	Date Collected: <u>10/11/2016 12:51</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>10/21/2016 14:08</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RTXVMS30</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275504</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	0.31	J	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.60	J	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	0.34	J	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	6.4		5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		81-118
460-00-4	4-Bromofluorobenzene (Surr)	114		85-114
1868-53-7	Dibromofluoromethane (Surr)	104		80-119
2037-26-5	Toluene-d8 (Surr)	103		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6220.D
 Lims ID: 280-89533-B-3
 Client ID: 6MW2302
 Sample Type: Client
 Inject. Date: 21-Oct-2016 14:08:30 ALS Bottle#: 11 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0008795-013
 Misc. Info.: 280-89533-b-3
 Operator ID: ADB Instrument ID: VMSL
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 11:50:18 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:33:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.055				ND	
3 Chloromethane	50		3.404				ND	
4 Vinyl chloride	62	3.572	3.558	0.014	94	94596	6.41	
5 Bromomethane	94	4.158	4.158	0.000	91	13556	1.73	
6 Chloroethane	64		4.382				ND	
7 Trichlorofluoromethane	101		4.619				ND	
9 1,1-Dichloroethene	96		5.443				ND	
10 Carbon disulfide	76	5.485	5.485	0.000	99	18029	0.4576	
17 Methylene Chloride	84		6.239				ND	
18 Acetone	43	6.309	6.309	0.000	99	27939	16.5	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	98	6708	0.5998	
22 Methyl tert-butyl ether	73		6.560				ND	
28 1,1-Dichloroethane	63		7.161				ND	
32 cis-1,2-Dichloroethene	96	7.747	7.748	-0.001	80	13886	1.27	
33 2,2-Dichloropropane	77		7.859				ND	
35 Chlorobromomethane	128		7.957				ND	
36 Chloroform	83		8.013				ND	
37 Carbon tetrachloride	117		8.167				ND	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.195	0.000	93	419616	52.0	
40 1,1,1-Trichloroethane	97		8.236				ND	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	99	31133	15.0	
42 1,1-Dichloropropene	75		8.348				ND	
44 Benzene	78		8.600				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	94	441735	50.3	
49 1,2-Dichloroethane	62		8.795				ND	
* 51 Fluorobenzene	96	8.976	8.977	-0.001	99	2080856	50.0	
53 Trichloroethene	95	9.130	9.130	0.000	95	4142	0.3427	
55 Dibromomethane	93		9.549				ND	
56 1,2-Dichloropropane	63		9.633				ND	
57 Dichlorobromomethane	83		9.661				ND	
61 cis-1,3-Dichloropropene	75		10.234				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	1882243	51.6	
63 Toluene	92	10.443	10.443	0.000	99	21509	0.7656	
66 4-Methyl-2-pentanone (MIBK)	43		10.750				ND	
67 trans-1,3-Dichloropropene	75		10.806				ND	
65 Tetrachloroethene	164	10.806	10.806	0.000	91	3264	0.3086	
68 1,1,2-Trichloroethane	83		10.960				ND	
70 Chlorodibromomethane	129		11.141				ND	
71 1,3-Dichloropropane	76		11.225				ND	
72 Ethylene Dibromide	107		11.393				ND	
74 2-Hexanone	43		11.491				ND	
78 Ethylbenzene	91		11.826				ND	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	86	1455027	50.0	
77 Chlorobenzene	112		11.840				ND	
79 1,1,1,2-Tetrachloroethane	131		11.882				ND	
80 m-Xylene & p-Xylene	106		11.951				ND	
82 o-Xylene	106		12.356				ND	
83 Styrene	104		12.398				ND	
84 Bromoform	173		12.468				ND	
85 Isopropylbenzene	105		12.622				ND	
\$ 86 4-Bromofluorobenzene (Surr)	95	12.929	12.929	0.000	93	645583	56.8	
88 N-Propylbenzene	91		13.013				ND	
87 Bromobenzene	156		13.055				ND	
89 1,1,2,2-Tetrachloroethane	83		13.083				ND	
91 1,3,5-Trimethylbenzene	105		13.180				ND	
90 2-Chlorotoluene	91		13.194				ND	
92 1,2,3-Trichloropropane	110		13.236				ND	
95 4-Chlorotoluene	91		13.348				ND	
96 tert-Butylbenzene	119		13.502				ND	
97 1,2,4-Trimethylbenzene	105		13.558				ND	
98 sec-Butylbenzene	105		13.669				ND	
99 4-Isopropyltoluene	119		13.781				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.991	0.000	96	688360	50.0	
103 n-Butylbenzene	134		14.200				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.220				ND	
110 Naphthalene	128		16.239				ND	
111 1,2,3-Trichlorobenzene	180		16.435				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00066

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6220.D

Injection Date: 21-Oct-2016 14:08:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: 280-89533-B-3

Lab Sample ID: 160-89533-3

Worklist Smp#: 13

Client ID: 6MW2302

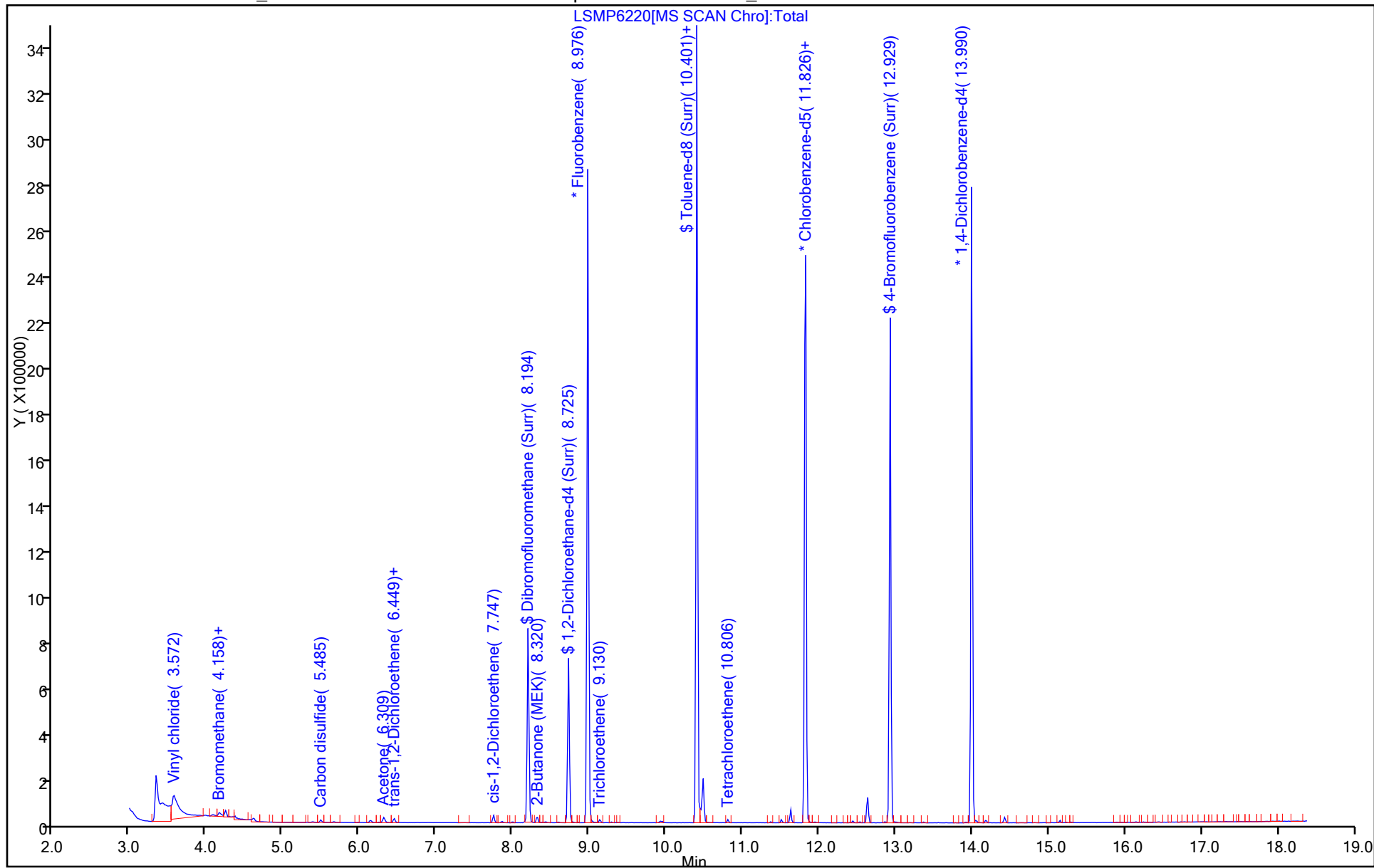
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6220.D
Lims ID: 280-89533-B-3
Client ID: 6MW2302
Sample Type: Client
Inject. Date: 21-Oct-2016 14:08:30 ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0008795-013
Misc. Info.: 280-89533-b-3
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 24-Oct-2016 11:50:18 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:33:27

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	52.0	104.00
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.3	100.67
\$ 62 Toluene-d8 (Surr)	50.0	51.6	103.11
\$ 86 4-Bromofluorobenzene (Surr)	50.0	56.8	113.69

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6220.D

Injection Date: 21-Oct-2016 14:08:30

Instrument ID: VMSL

Lims ID: 280-89533-B-3

Lab Sample ID: 160-89533-3

Client ID: 6MW2302

Operator ID: ADB

ALS Bottle#: 11 Worklist Smp#: 13

Purge Vol: 5.000 mL

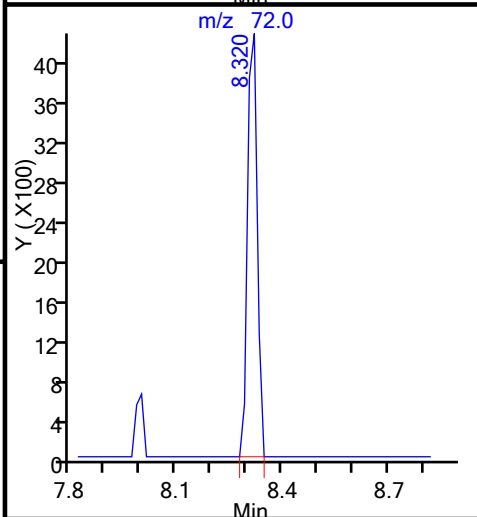
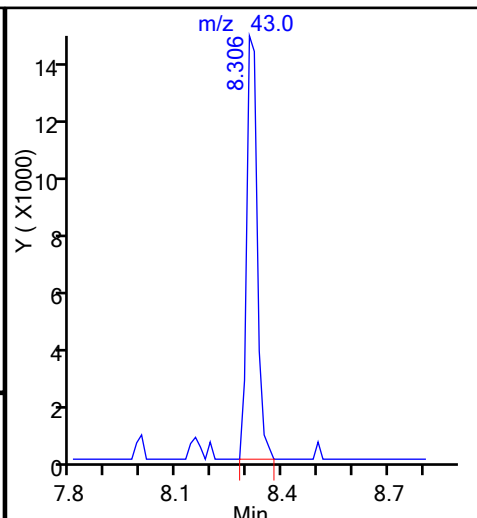
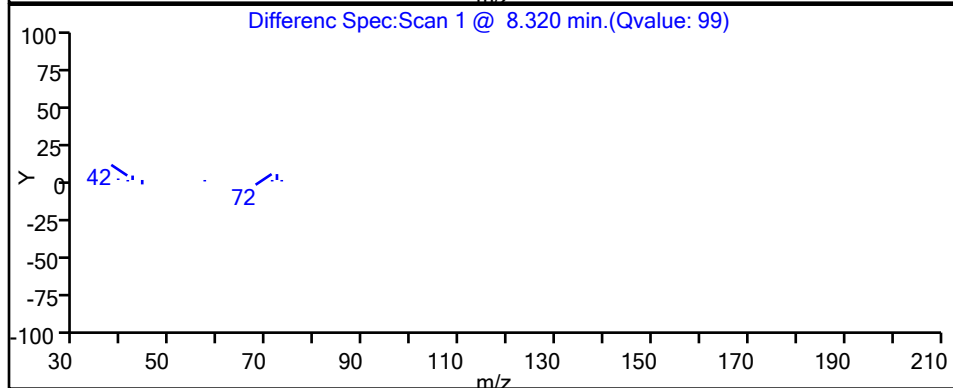
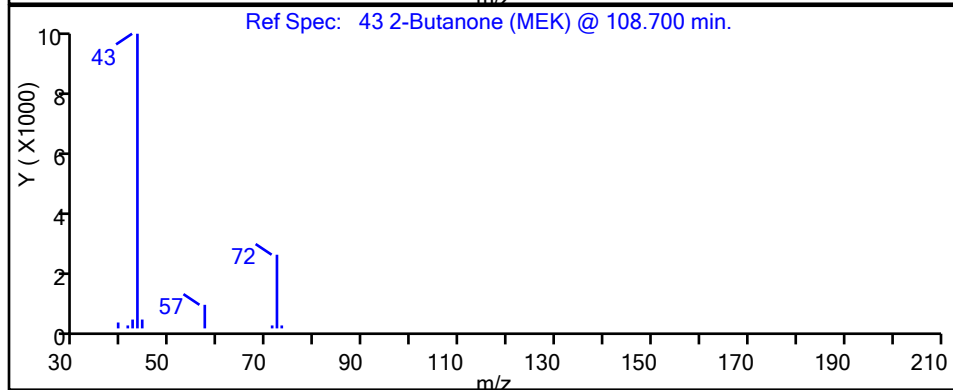
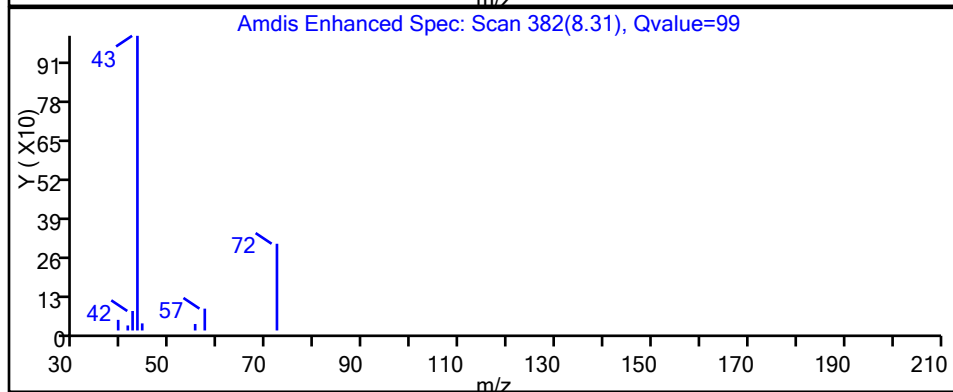
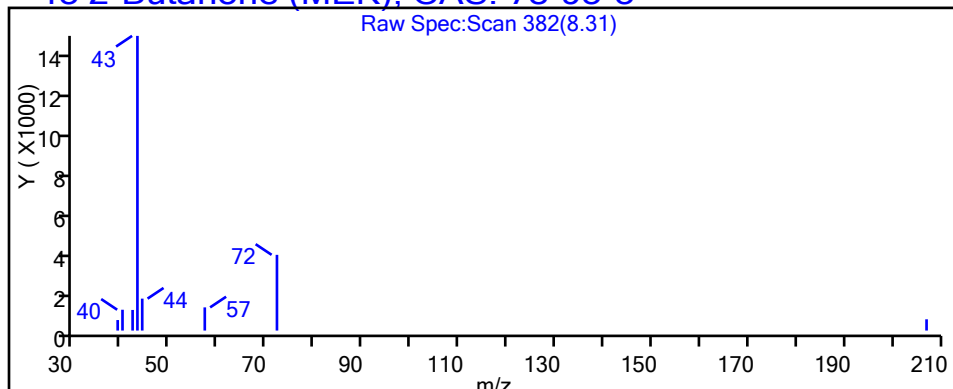
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

43 2-Butanone (MEK). CAS: 78-93-3

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6220.D

Injection Date: 21-Oct-2016 14:08:30

Instrument ID: VMSL

Lims ID: 280-89533-B-3

Lab Sample ID: 160-89533-3

Client ID: 6MW2302

Operator ID: ADB

ALS Bottle#: 11

Worklist Smp#: 13

Purge Vol: 5.000 mL

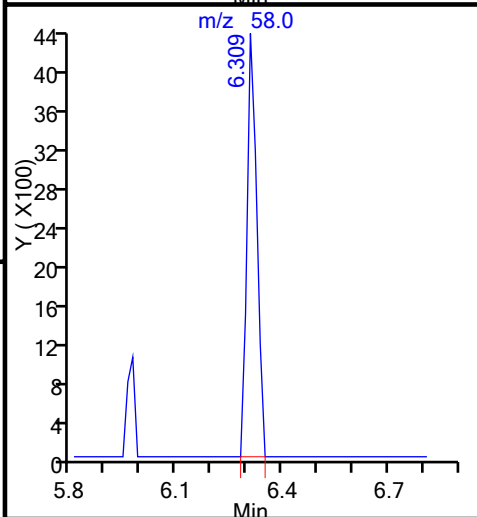
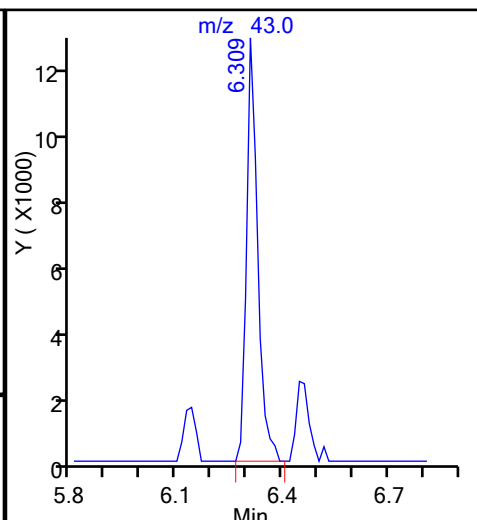
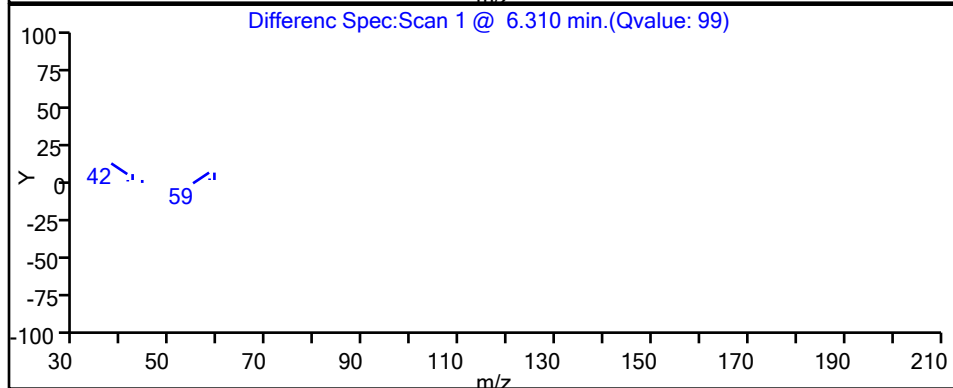
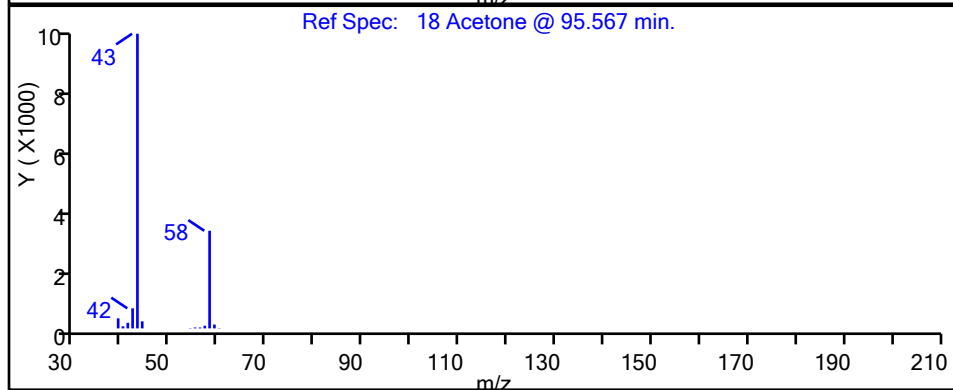
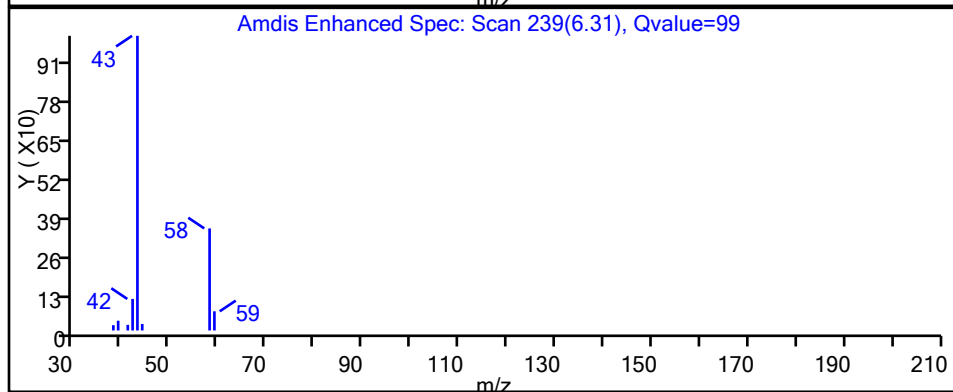
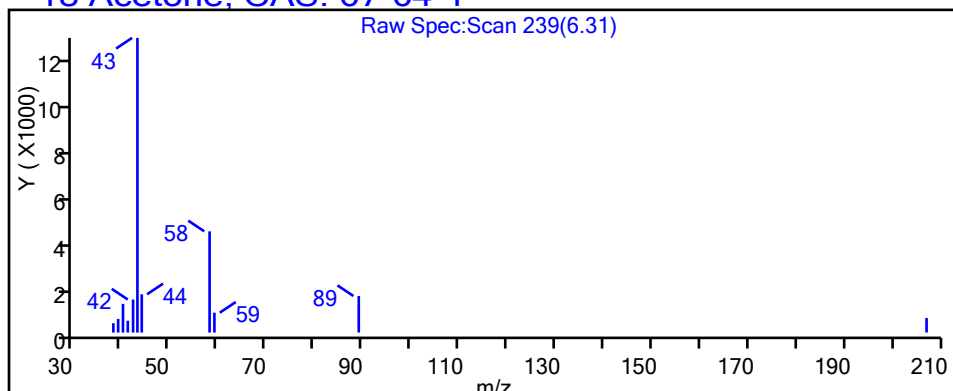
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

18 Acetone, CAS: 67-64-1

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6220.D

Injection Date: 21-Oct-2016 14:08:30

Instrument ID: VMSL

Lims ID: 280-89533-B-3

Lab Sample ID: 160-89533-3

Client ID: 6MW2302

Operator ID: ADB

ALS Bottle#: 11

Worklist Smp#: 13

Purge Vol: 5.000 mL

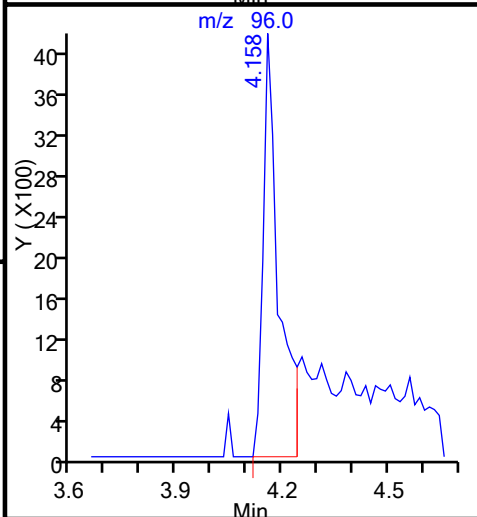
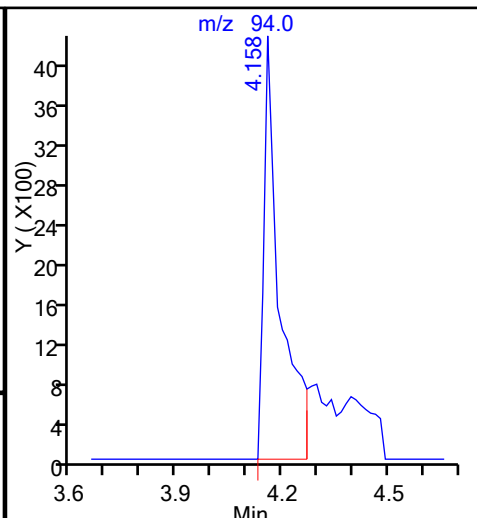
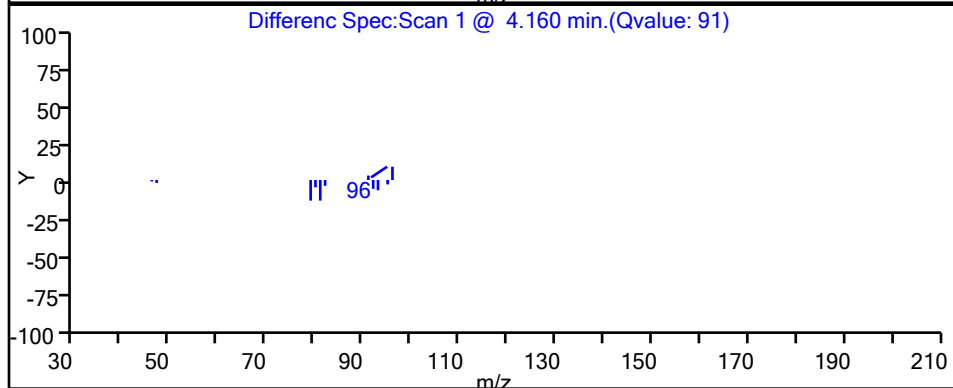
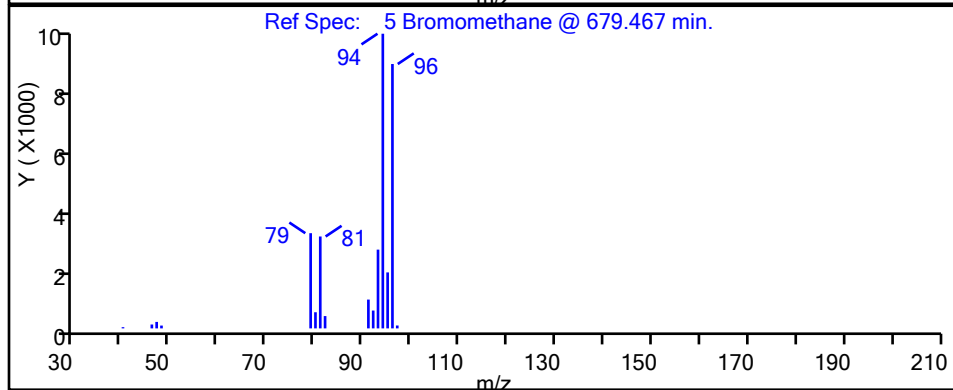
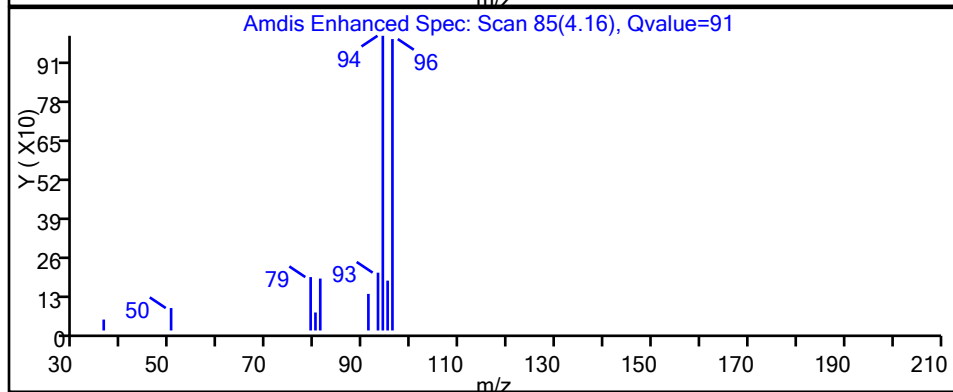
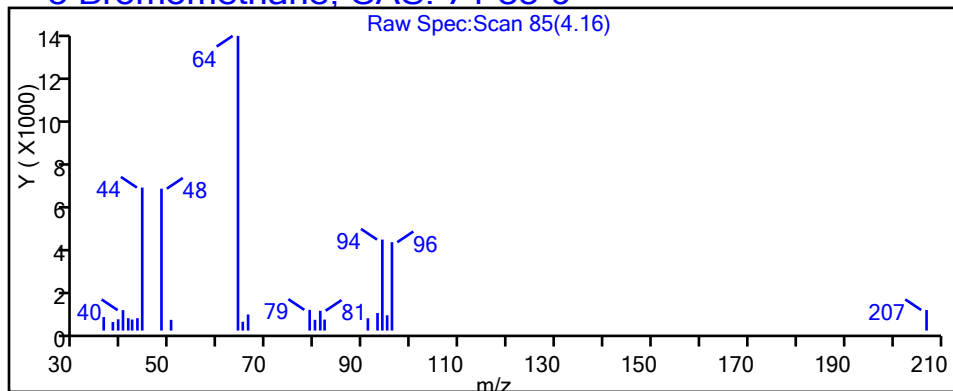
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector: MS SCAN

5 Bromomethane, CAS: 74-83-9

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6220.D

Injection Date: 21-Oct-2016 14:08:30

Instrument ID: VMSL

Lims ID: 280-89533-B-3

Lab Sample ID: 160-89533-3

Client ID: 6MW2302

Operator ID: ADB

ALS Bottle#: 11

Worklist Smp#: 13

Purge Vol: 5.000 mL

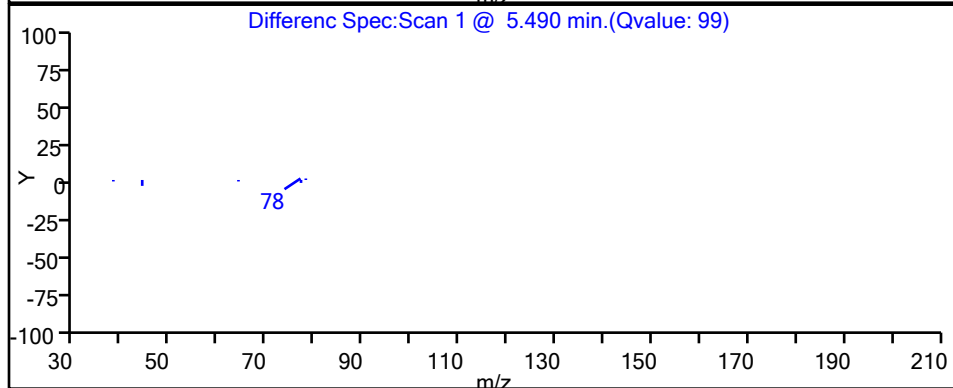
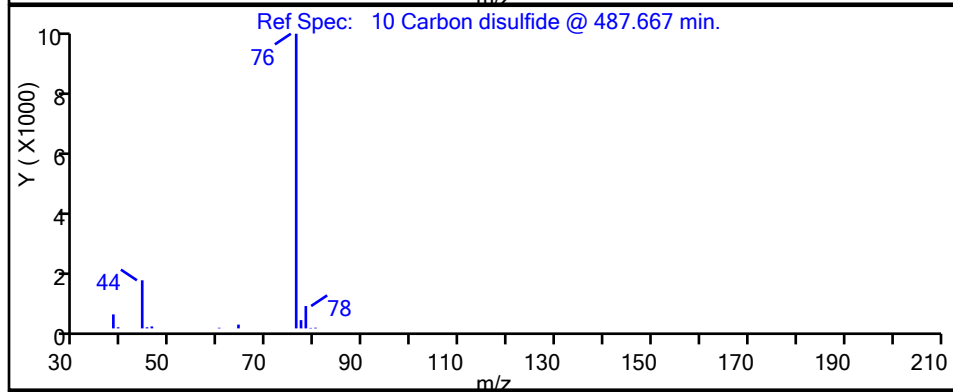
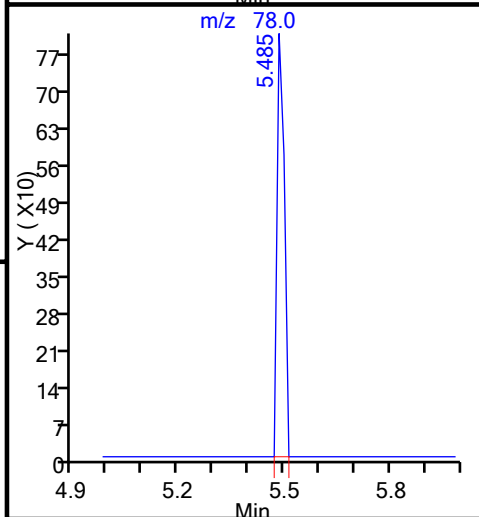
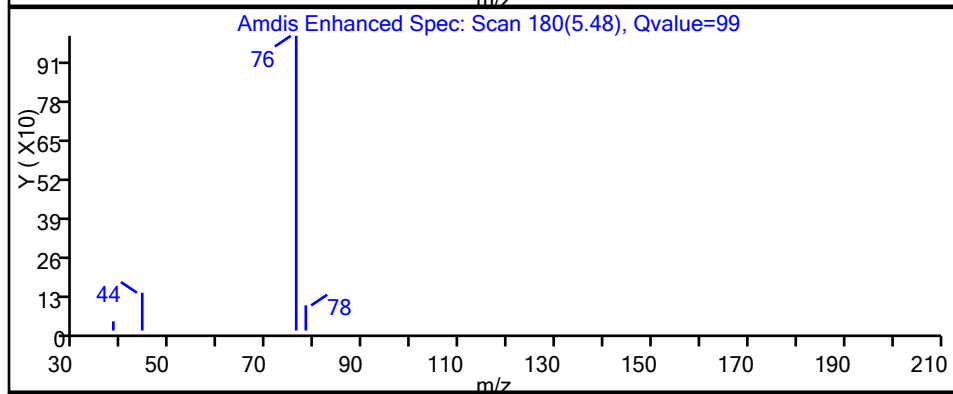
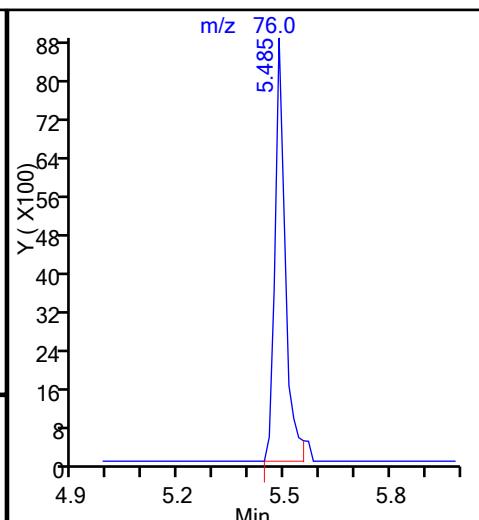
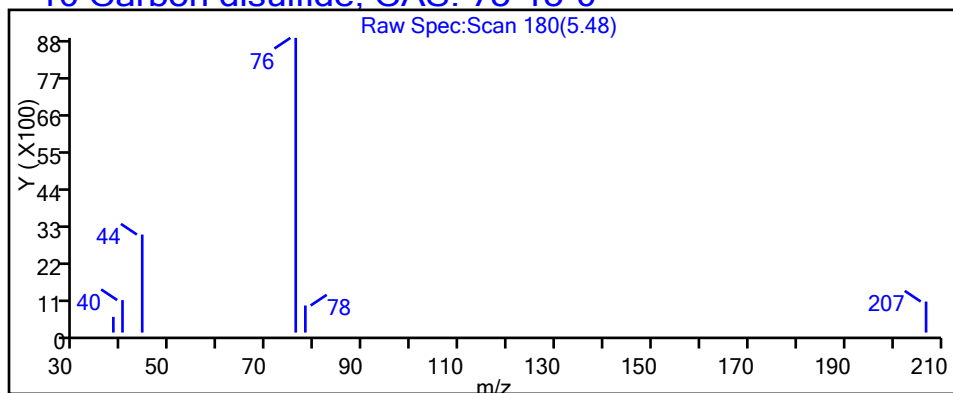
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

10 Carbon disulfide, CAS: 75-15-0

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6220.D

Injection Date: 21-Oct-2016 14:08:30

Instrument ID: VMSL

Lims ID: 280-89533-B-3

Lab Sample ID: 160-89533-3

Client ID: 6MW2302

Operator ID: ADB

ALS Bottle#: 11

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

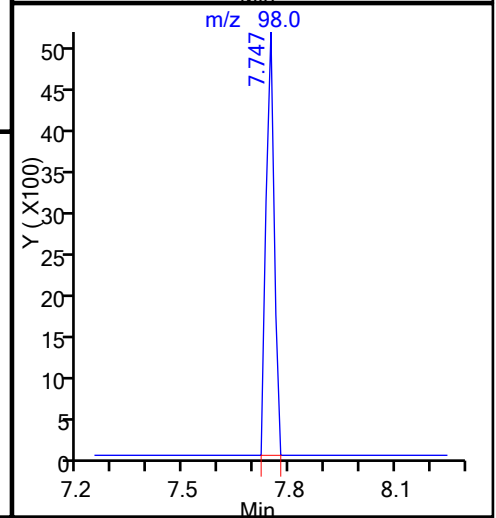
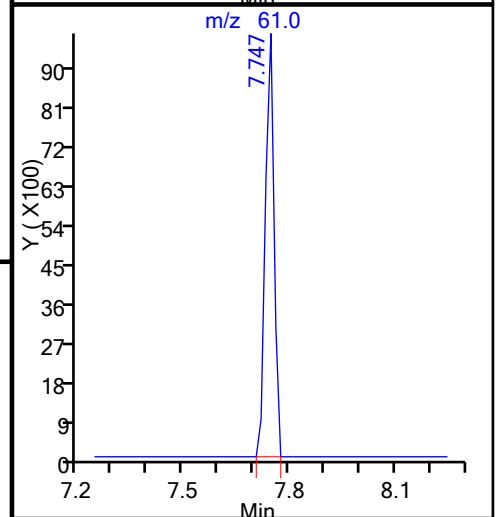
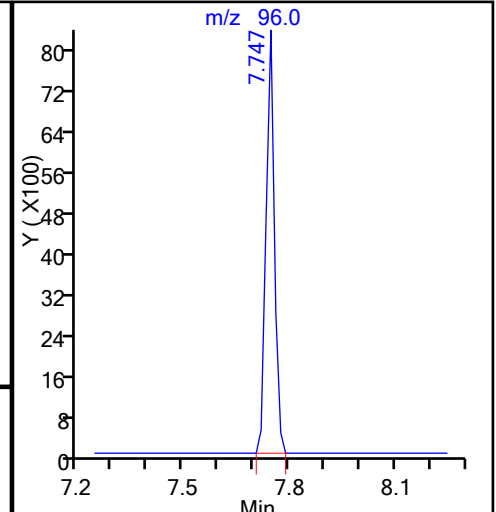
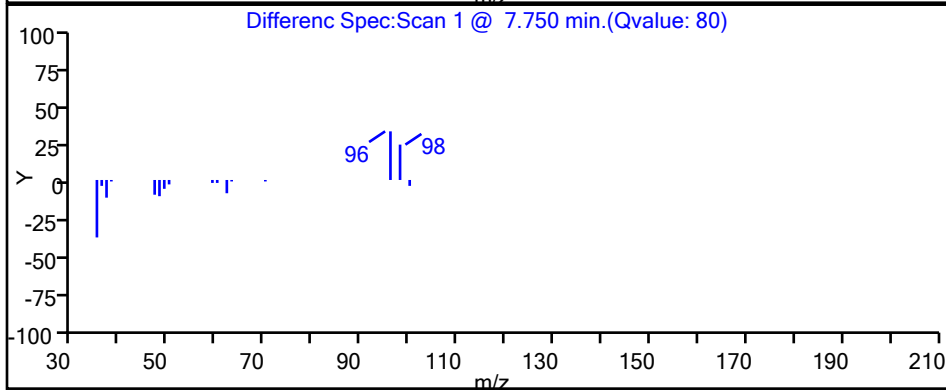
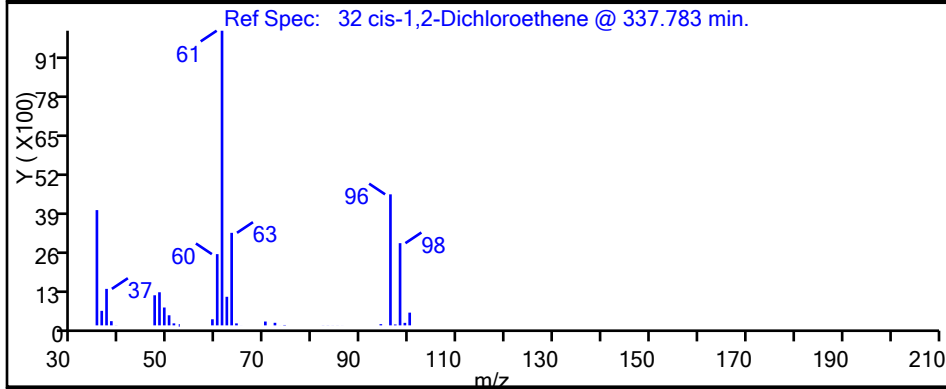
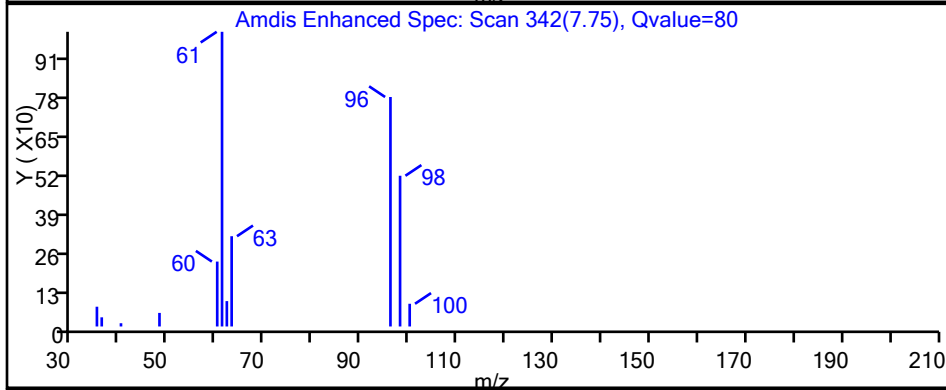
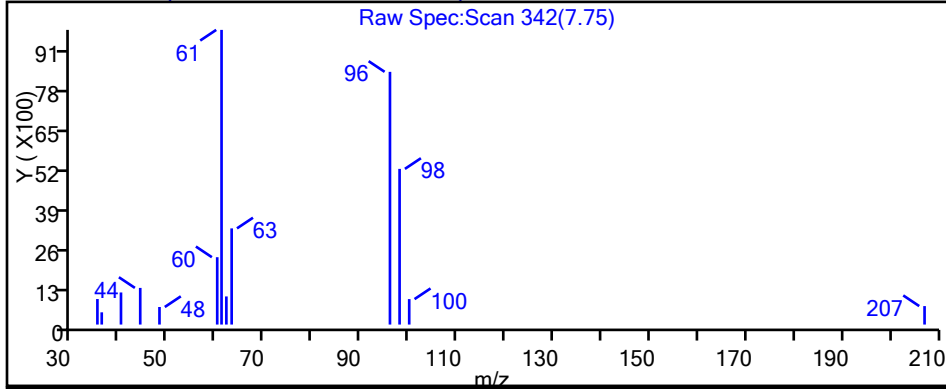
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6220.D

Injection Date: 21-Oct-2016 14:08:30

Instrument ID: VMSL

Lims ID: 280-89533-B-3

Lab Sample ID: 160-89533-3

Client ID: 6MW2302

Operator ID: ADB

ALS Bottle#: 11

Worklist Smp#: 13

Purge Vol: 5.000 mL

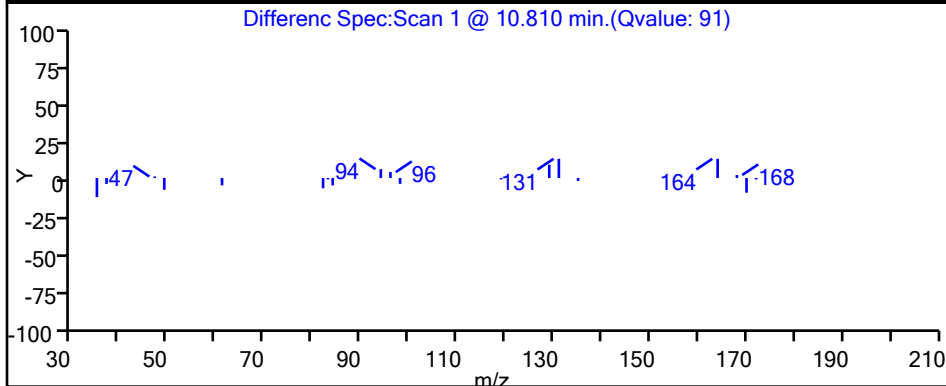
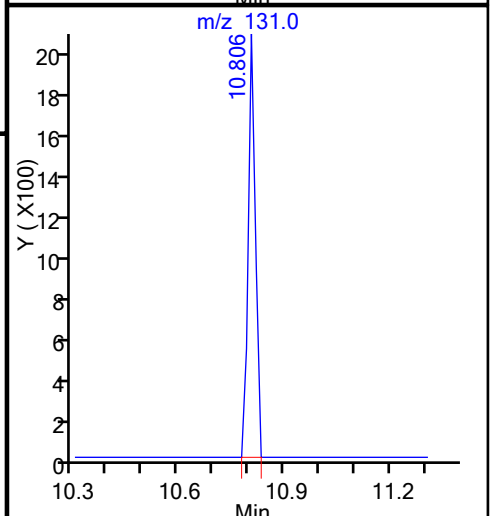
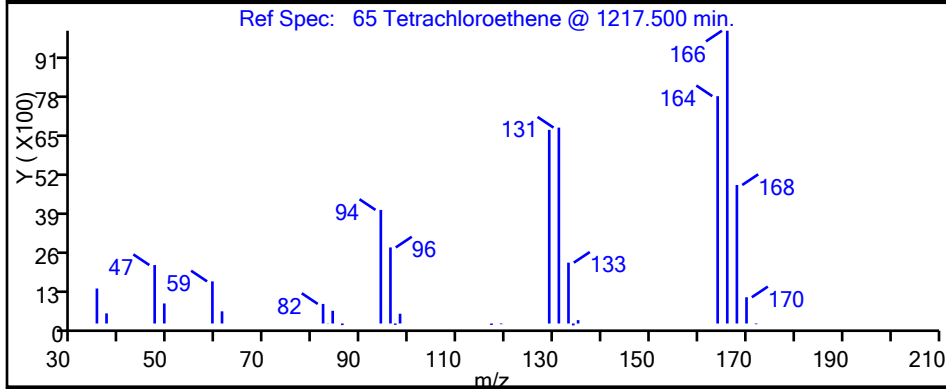
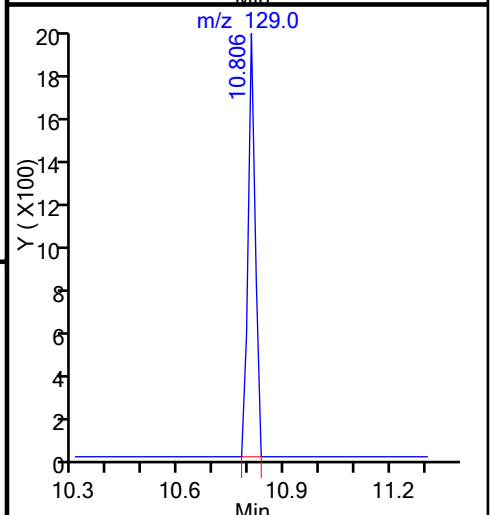
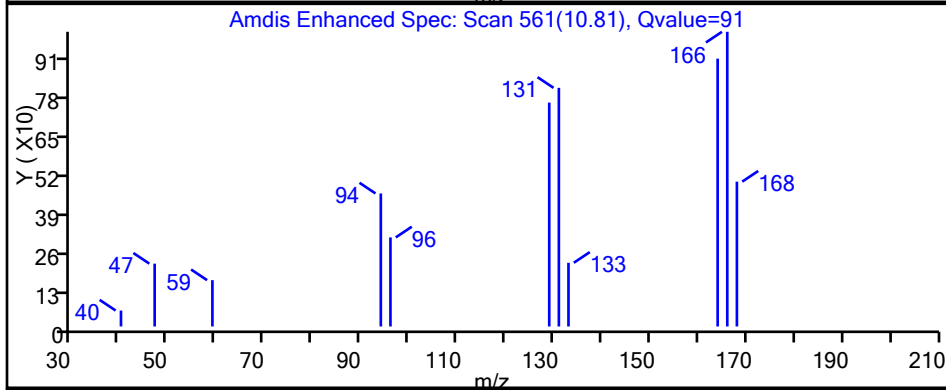
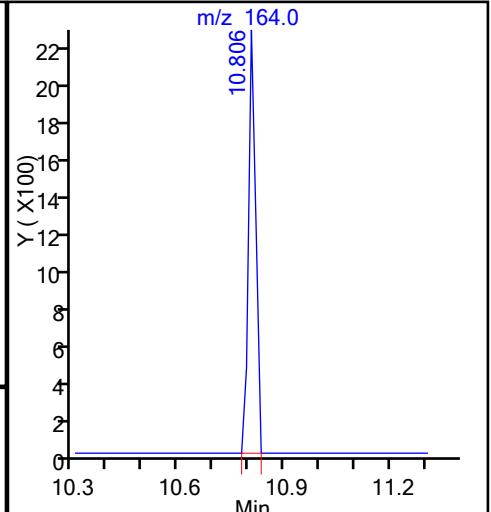
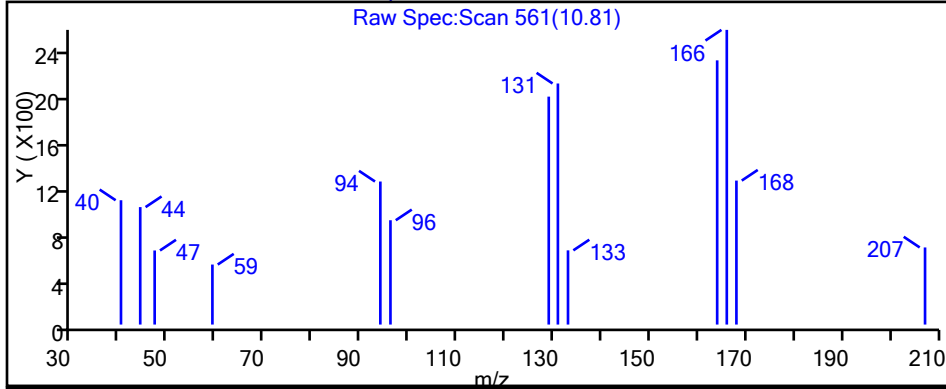
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

65 Tetrachloroethene, CAS: 127-18-4

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6220.D

Injection Date: 21-Oct-2016 14:08:30

Instrument ID: VMSL

Lims ID: 280-89533-B-3

Lab Sample ID: 160-89533-3

Client ID: 6MW2302

Operator ID: ADB

ALS Bottle#: 11

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

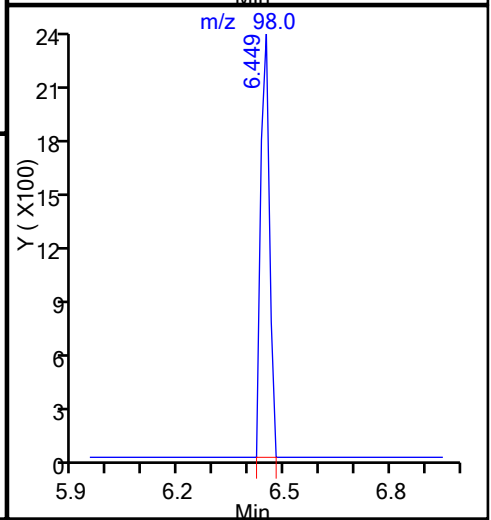
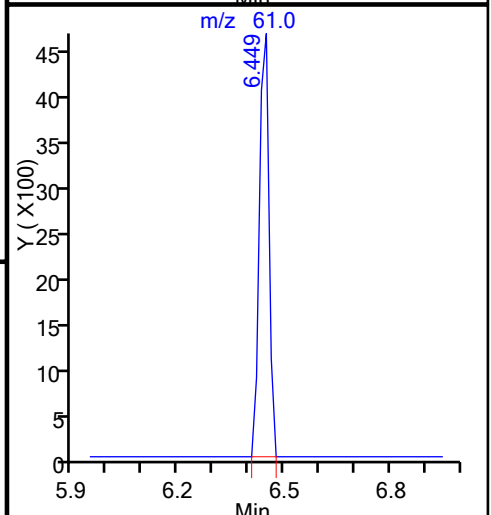
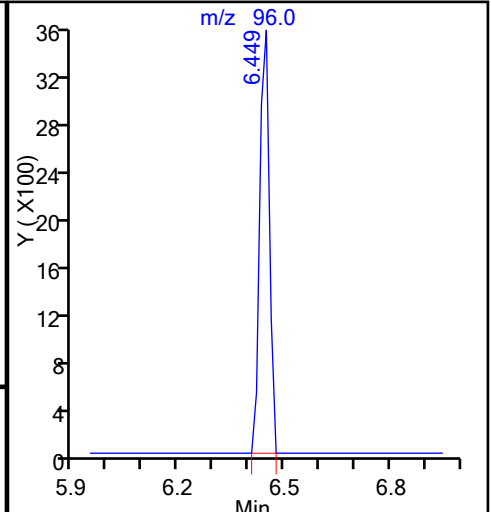
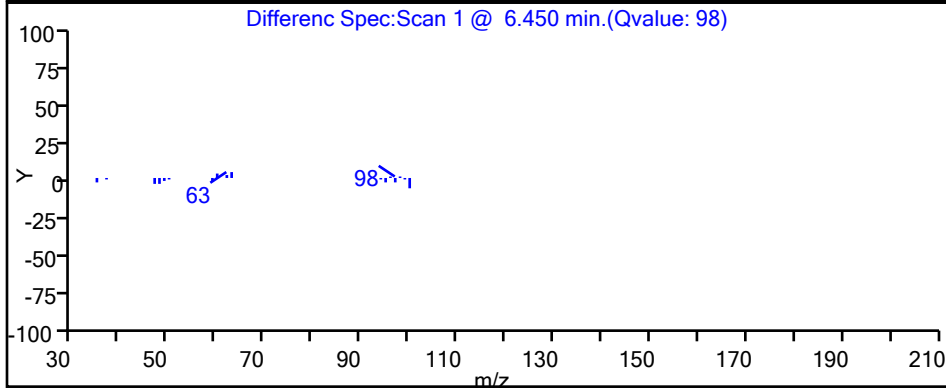
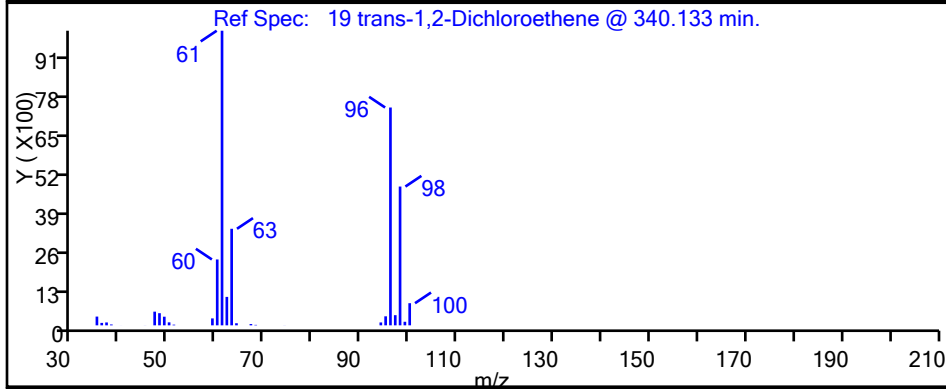
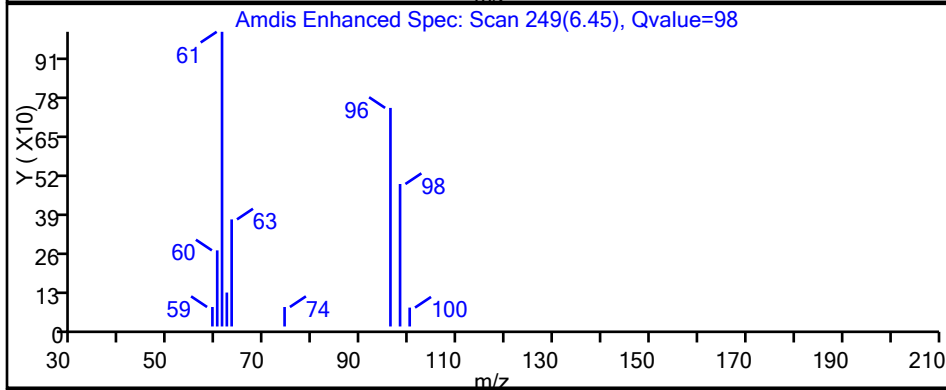
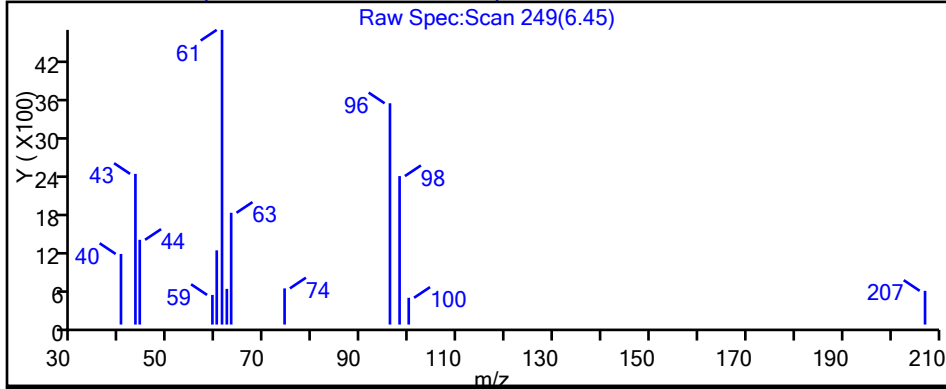
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6220.D

Injection Date: 21-Oct-2016 14:08:30

Instrument ID: VMSL

Lims ID: 280-89533-B-3

Lab Sample ID: 160-89533-3

Client ID: 6MW2302

Operator ID: ADB

ALS Bottle#: 11

Worklist Smp#: 13

Purge Vol: 5.000 mL

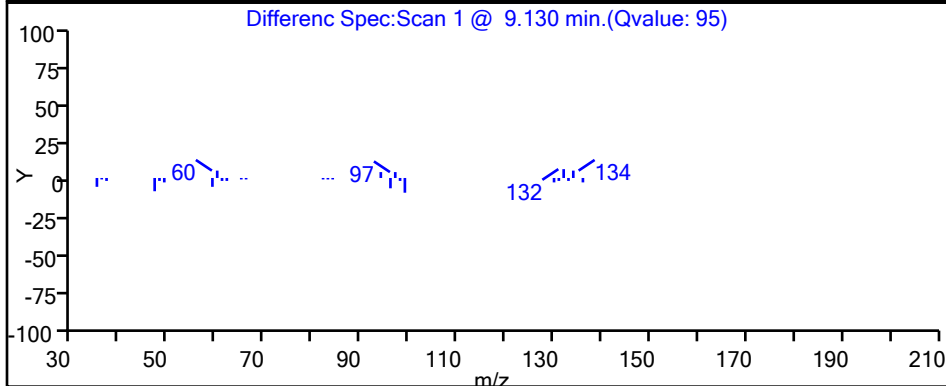
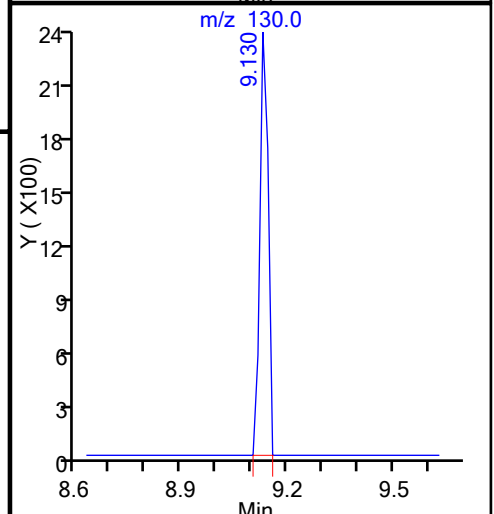
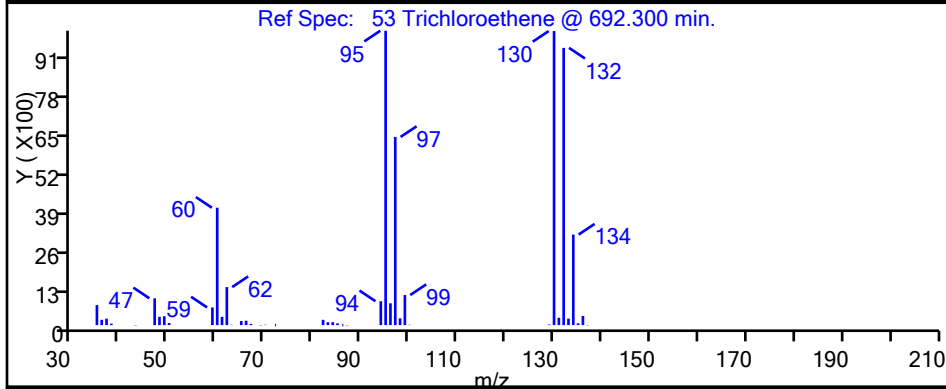
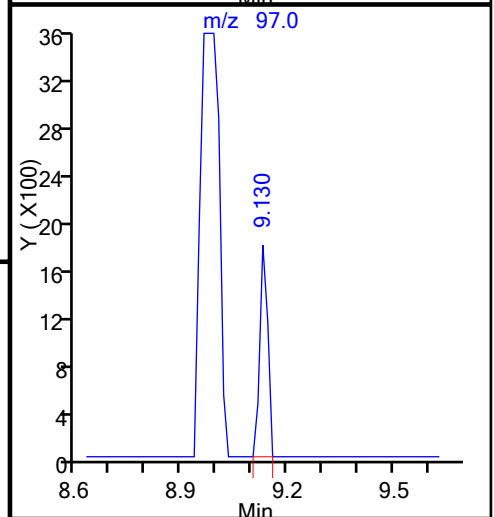
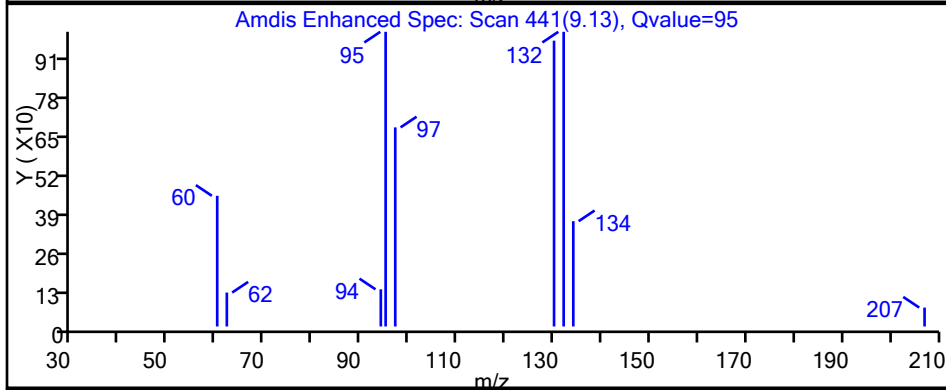
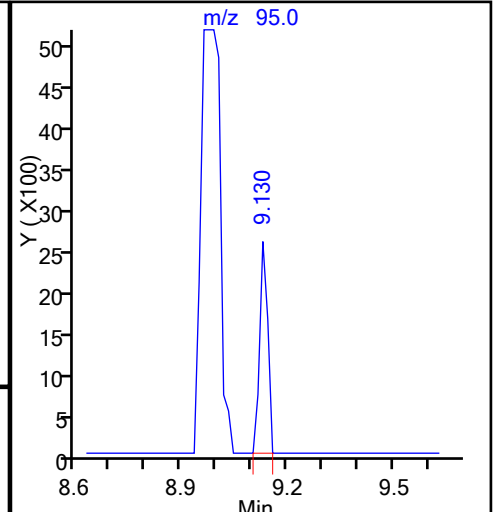
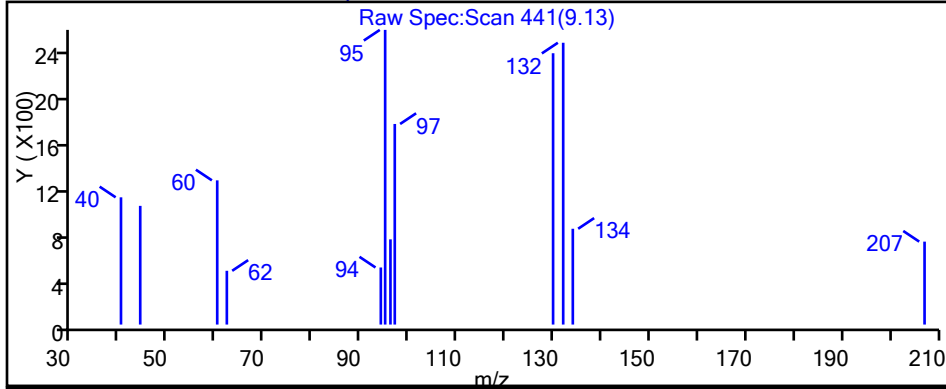
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

53 Trichloroethene, CAS: 79-01-6

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6220.D

Injection Date: 21-Oct-2016 14:08:30

Instrument ID: VMSL

Lims ID: 280-89533-B-3

Lab Sample ID: 160-89533-3

Client ID: 6MW2302

Operator ID: ADB

ALS Bottle#: 11

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

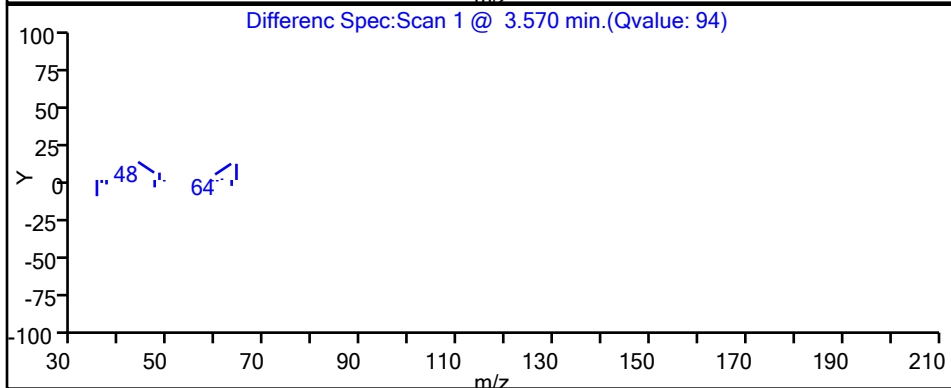
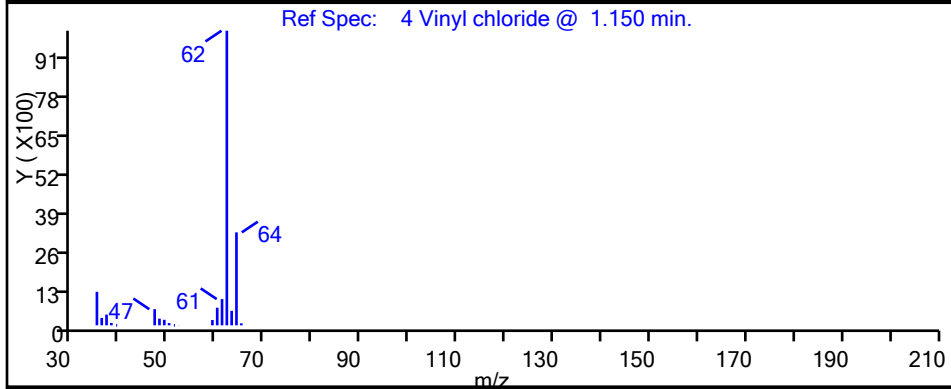
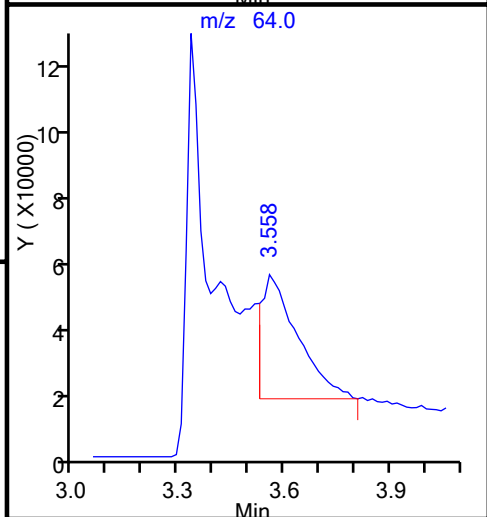
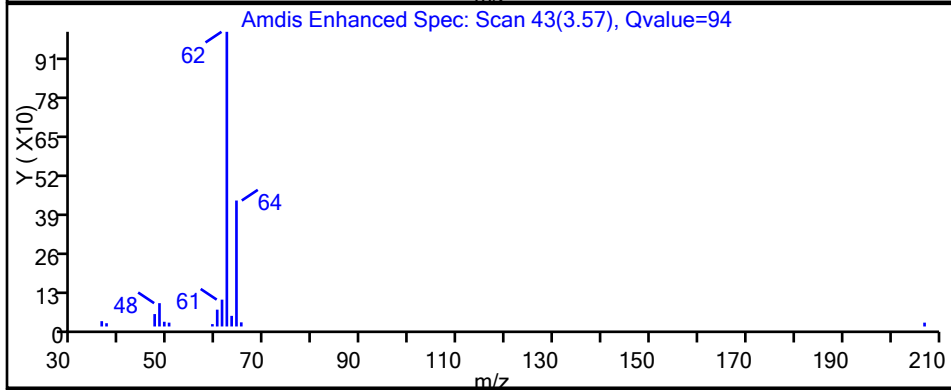
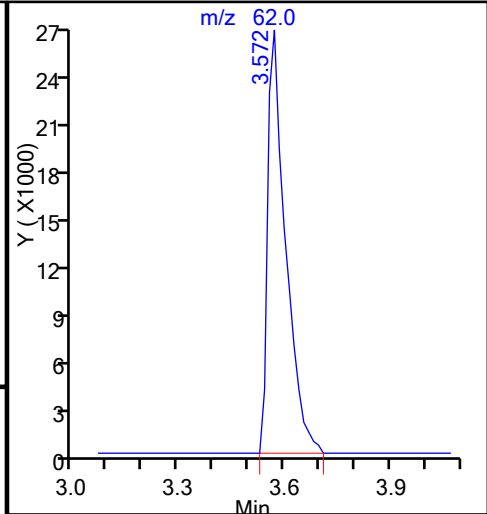
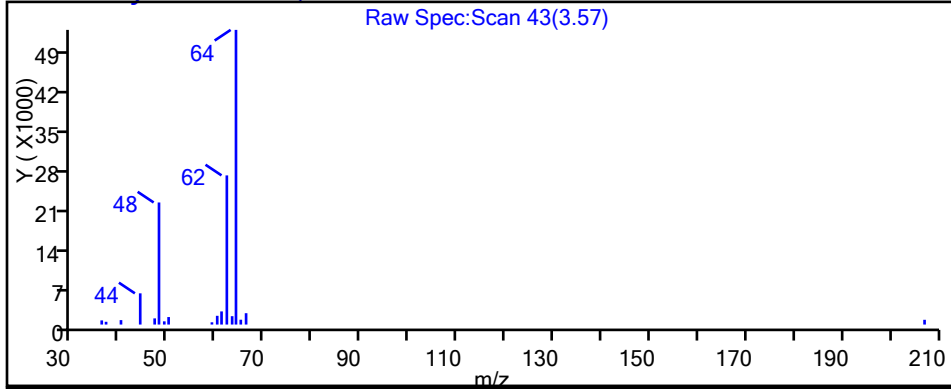
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica St. Louis</u>	Job No.: <u>280-89533-1</u>
SDG No.: _____	
Client Sample ID: <u>6MW2202</u>	Lab Sample ID: <u>280-89533-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>LSMP6221.D</u>
Analysis Method: <u>8260C DOD</u>	Date Collected: <u>10/11/2016 11:46</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/21/2016 14:34</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RTXVMS30</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275504</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	29		20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	8.6	J	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	180		20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	0.97	J	10	2.0	0.40
75-15-0	Carbon disulfide	0.60	J	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	36		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: 6MW2202 Lab Sample ID: 280-89533-4

Matrix: Water Lab File ID: LSMP6221.D

Analysis Method: 8260C DOD Date Collected: 10/11/2016 11:46

Sample wt/vol: 5 (mL) Date Analyzed: 10/21/2016 14:34

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.6	J	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.39	J	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.2	J	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	9.3		5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		81-118
460-00-4	4-Bromofluorobenzene (Surr)	112		85-114
1868-53-7	Dibromofluoromethane (Surr)	103		80-119
2037-26-5	Toluene-d8 (Surr)	104		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6221.D
 Lims ID: 280-89533-B-4
 Client ID: 6MW2202
 Sample Type: Client
 Inject. Date: 21-Oct-2016 14:34:30 ALS Bottle#: 12 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0008795-014
 Misc. Info.: 280-89533-b-4
 Operator ID: ADB Instrument ID: VMSL
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 11:50:18 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:34:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.055				ND	
3 Chloromethane	50		3.404				ND	
4 Vinyl chloride	62	3.572	3.558	0.014	97	133623	9.29	
5 Bromomethane	94	4.158	4.158	0.000	87	7407	0.9667	
6 Chloroethane	64		4.382				ND	
7 Trichlorofluoromethane	101		4.619				ND	
9 1,1-Dichloroethene	96		5.443				ND	
10 Carbon disulfide	76	5.485	5.485	0.000	99	23096	0.6011	
17 Methylene Chloride	84		6.239				ND	
18 Acetone	43	6.309	6.309	0.000	100	220799	183.1	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	94	4254	0.3900	
22 Methyl tert-butyl ether	73		6.560				ND	
28 1,1-Dichloroethane	63		7.161				ND	
32 cis-1,2-Dichloroethene	96	7.748	7.748	0.000	79	388063	36.3	
33 2,2-Dichloropropane	77		7.859				ND	
35 Chlorobromomethane	128		7.957				ND	
36 Chloroform	83		8.013				ND	
37 Carbon tetrachloride	117		8.167				ND	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.195	0.000	93	405830	51.6	
40 1,1,1-Trichloroethane	97		8.236				ND	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	98	59743	29.5	
42 1,1-Dichloropropene	75		8.348				ND	
44 Benzene	78		8.600				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	94	424585	49.6	
49 1,2-Dichloroethane	62		8.795				ND	
* 51 Fluorobenzene	96	8.977	8.977	0.000	99	2029442	50.0	
53 Trichloroethene	95	9.130	9.130	0.000	96	13902	1.18	
55 Dibromomethane	93		9.549				ND	
56 1,2-Dichloropropane	63		9.633				ND	
57 Dichlorobromomethane	83		9.661				ND	
61 cis-1,3-Dichloropropene	75		10.234				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	1833556	51.8	
63 Toluene	92	10.443	10.443	0.000	42	3986	0.1462	
66 4-Methyl-2-pentanone (MIBK)	43		10.750				ND	
67 trans-1,3-Dichloropropene	75		10.806				ND	
65 Tetrachloroethene	164	10.806	10.806	0.000	97	16061	1.56	
68 1,1,2-Trichloroethane	83		10.960				ND	
70 Chlorodibromomethane	129		11.141				ND	
71 1,3-Dichloropropane	76		11.225				ND	
72 Ethylene Dibromide	107		11.393				ND	
74 2-Hexanone	43	11.504	11.491	0.013	60	23526	8.64	
78 Ethylbenzene	91		11.826				ND	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	86	1411723	50.0	
77 Chlorobenzene	112	11.840	11.840	0.000	90	4215	0.1452	
79 1,1,1,2-Tetrachloroethane	131		11.882				ND	
80 m-Xylene & p-Xylene	106		11.951				ND	
82 o-Xylene	106		12.356				ND	
83 Styrene	104		12.398				ND	
84 Bromoform	173		12.468				ND	
85 Isopropylbenzene	105		12.622				ND	
\$ 86 4-Bromofluorobenzene (Surr)	95	12.929	12.929	0.000	92	644951	55.9	
88 N-Propylbenzene	91		13.013				ND	
87 Bromobenzene	156		13.055				ND	
89 1,1,2,2-Tetrachloroethane	83		13.083				ND	
91 1,3,5-Trimethylbenzene	105		13.180				ND	
90 2-Chlorotoluene	91		13.194				ND	
92 1,2,3-Trichloropropane	110		13.236				ND	
95 4-Chlorotoluene	91		13.348				ND	
96 tert-Butylbenzene	119		13.502				ND	
97 1,2,4-Trimethylbenzene	105		13.558				ND	
98 sec-Butylbenzene	105		13.669				ND	
99 4-Isopropyltoluene	119		13.781				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.991	0.000	96	699062	50.0	
103 n-Butylbenzene	134		14.200				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.220				ND	
110 Naphthalene	128		16.239				ND	
111 1,2,3-Trichlorobenzene	180		16.435				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00066

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6221.D

Injection Date: 21-Oct-2016 14:34:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: 280-89533-B-4

Lab Sample ID: 160-89533-4

Worklist Smp#: 14

Client ID: 6MW2202

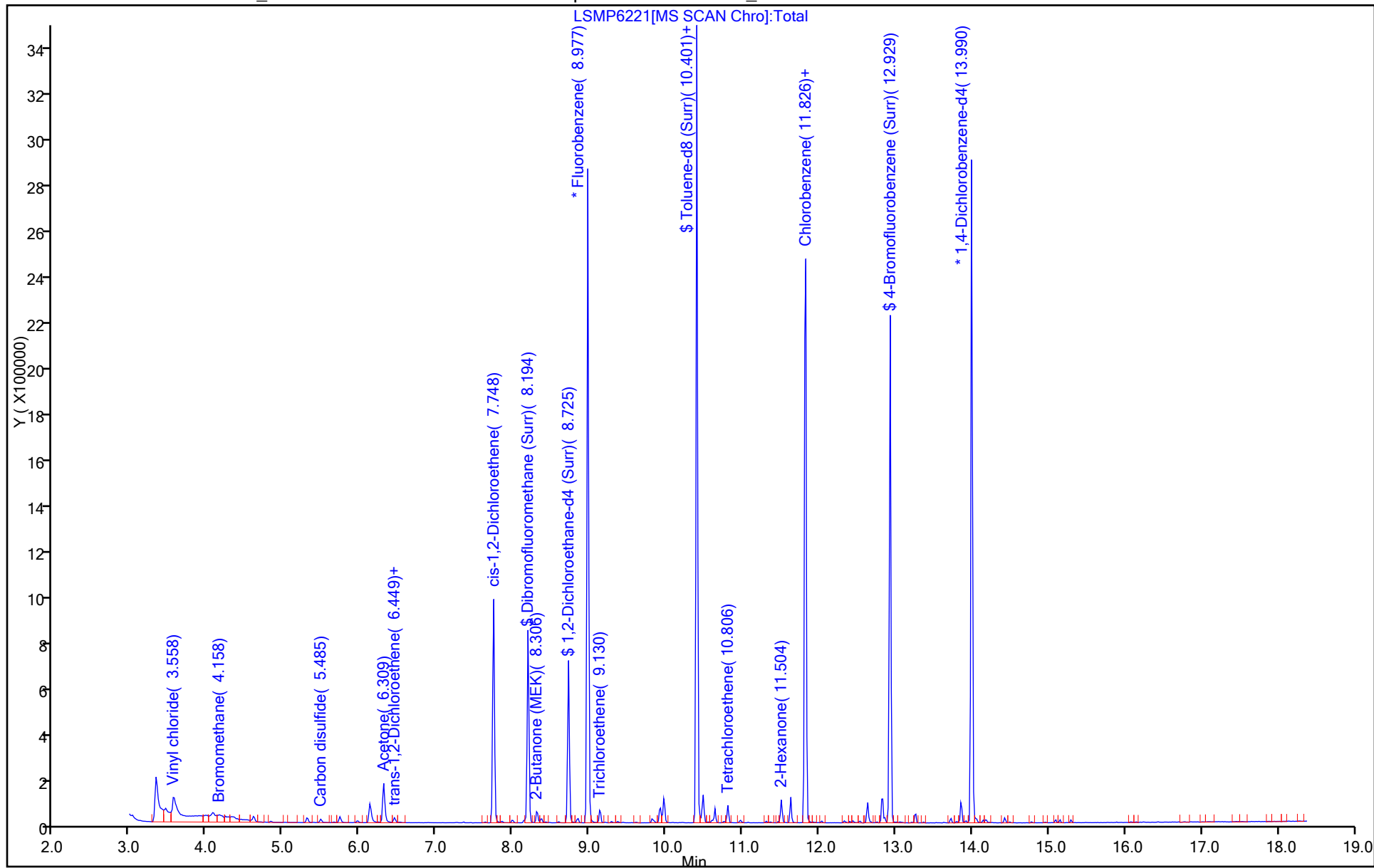
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSP6221.D
Lims ID: 280-89533-B-4
Client ID: 6MW2202
Sample Type: Client
Inject. Date: 21-Oct-2016 14:34:30 ALS Bottle#: 12 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0008795-014
Misc. Info.: 280-89533-b-4
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 24-Oct-2016 11:50:18 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:34:06

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	51.6	103.13
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	49.6	99.22
\$ 62 Toluene-d8 (Surr)	50.0	51.8	103.52
\$ 86 4-Bromofluorobenzene (Surr)	50.0	55.9	111.84

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6221.D

Injection Date: 21-Oct-2016 14:34:30

Instrument ID: VMSL

Lims ID: 280-89533-B-4

Lab Sample ID: 160-89533-4

Client ID: 6MW2202

Operator ID: ADB

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

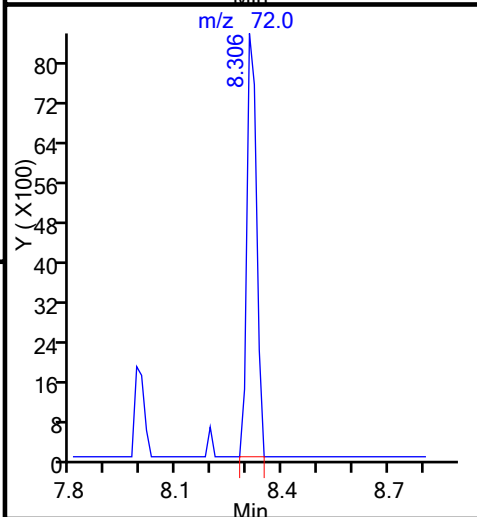
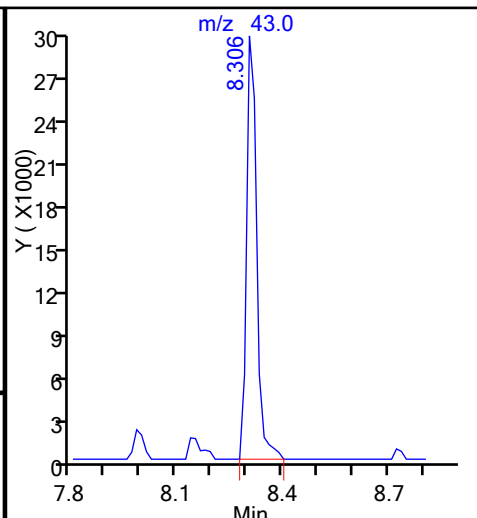
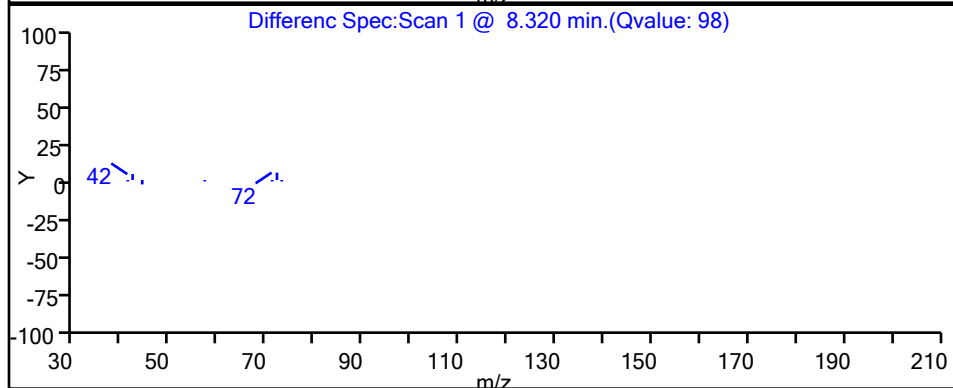
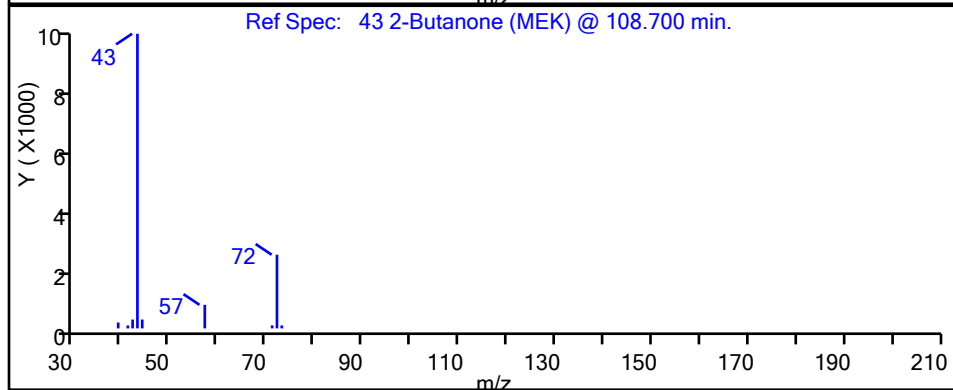
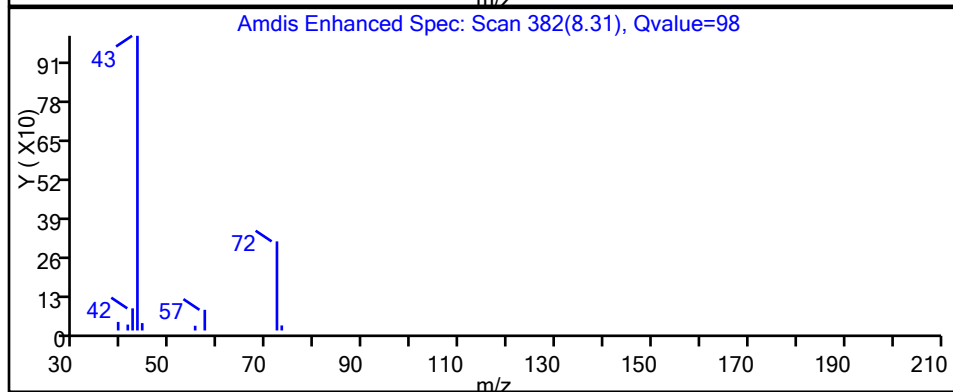
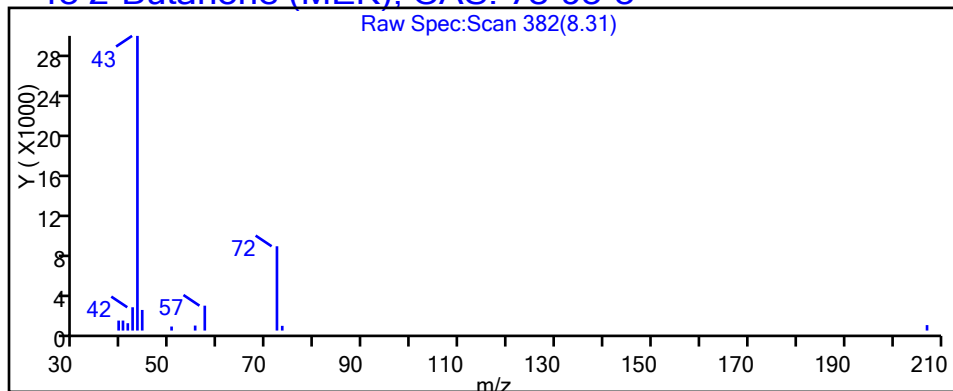
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

43 2-Butanone (MEK). CAS: 78-93-3

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6221.D

Injection Date: 21-Oct-2016 14:34:30

Instrument ID: VMSL

Lims ID: 280-89533-B-4

Lab Sample ID: 160-89533-4

Client ID: 6MW2202

Operator ID: ADB

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

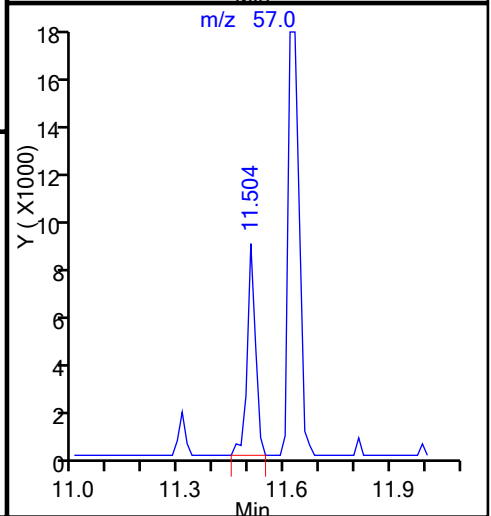
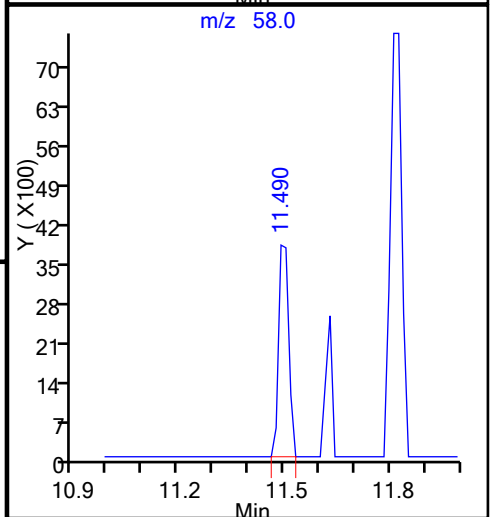
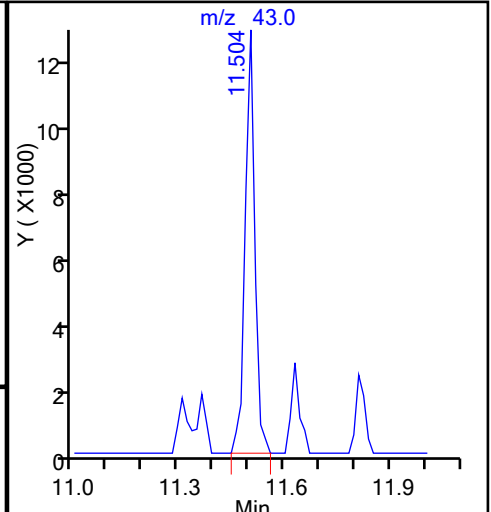
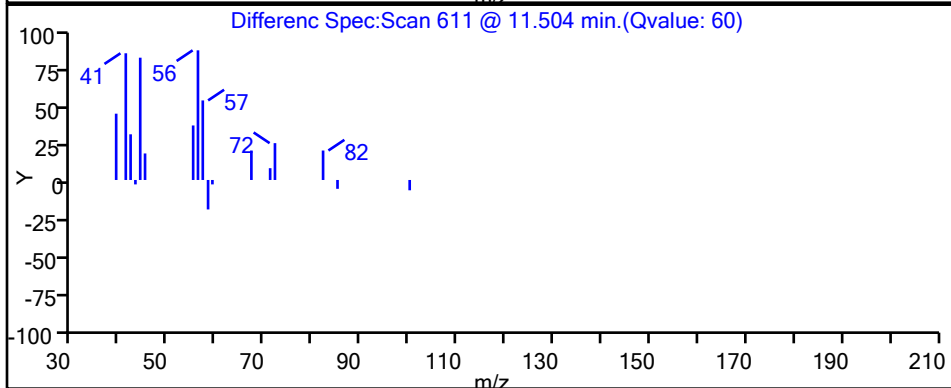
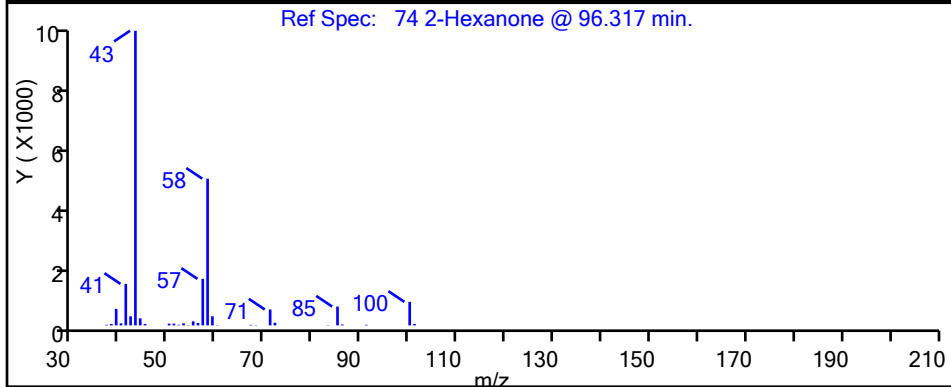
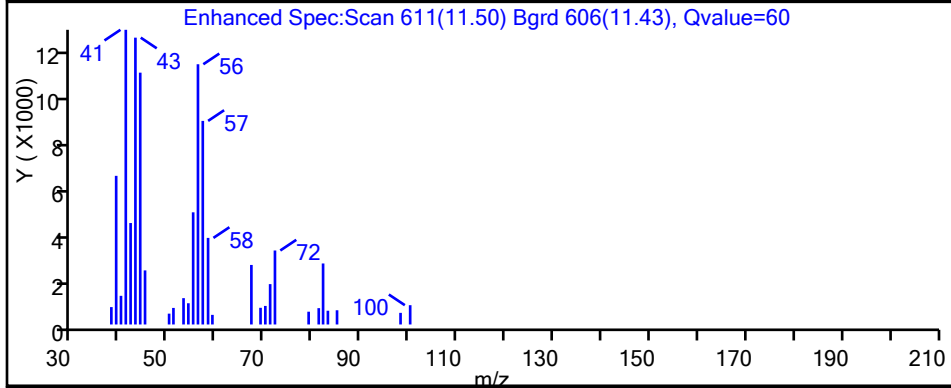
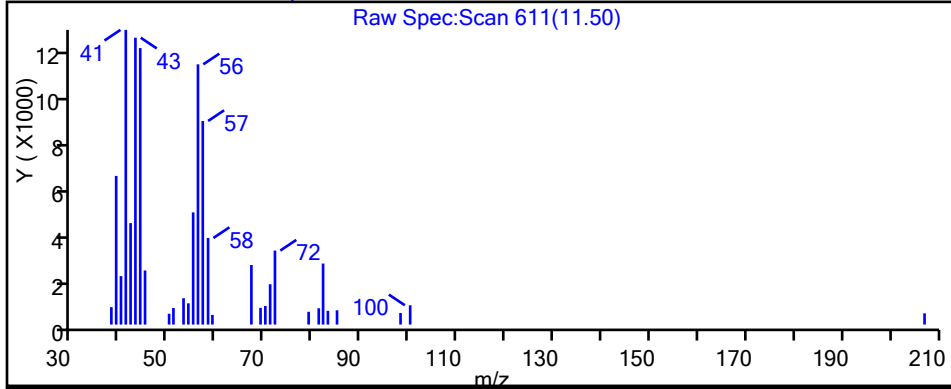
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

74 2-Hexanone, CAS: 591-78-6

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6221.D

Injection Date: 21-Oct-2016 14:34:30

Instrument ID: VMSL

Lims ID: 280-89533-B-4

Lab Sample ID: 160-89533-4

Client ID: 6MW2202

Operator ID: ADB

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

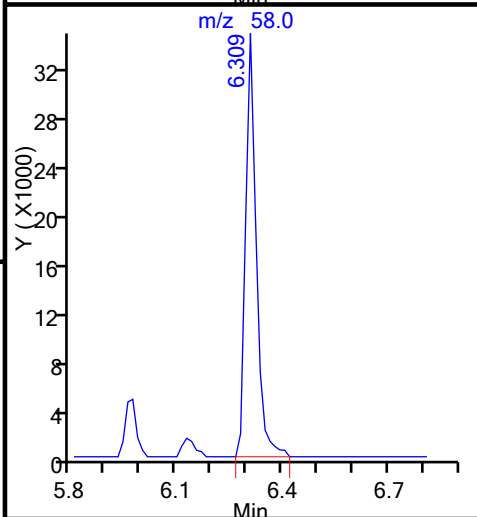
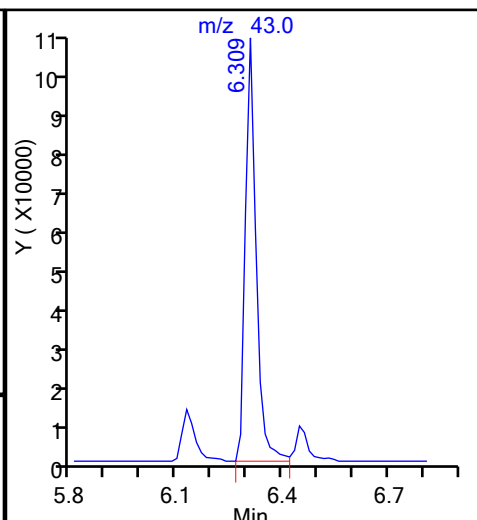
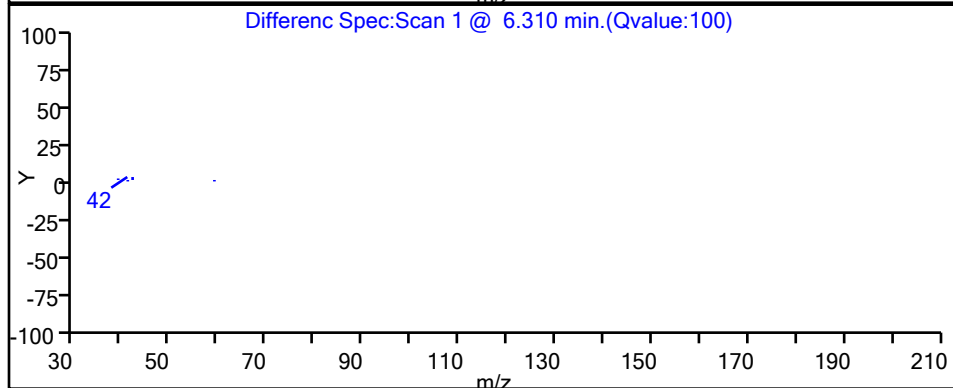
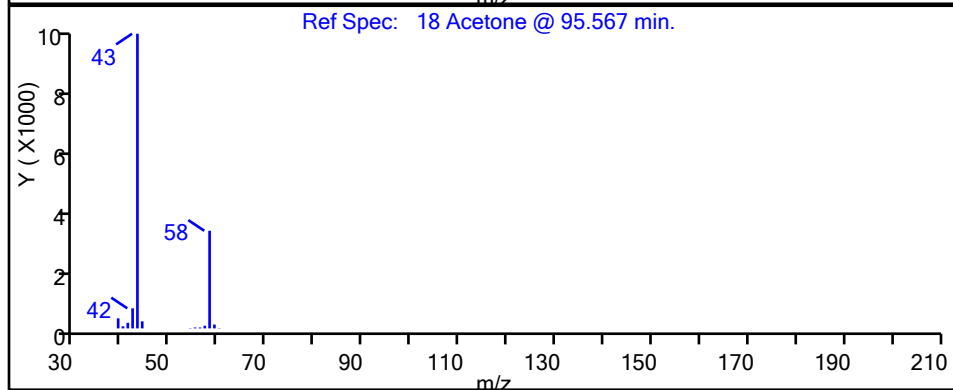
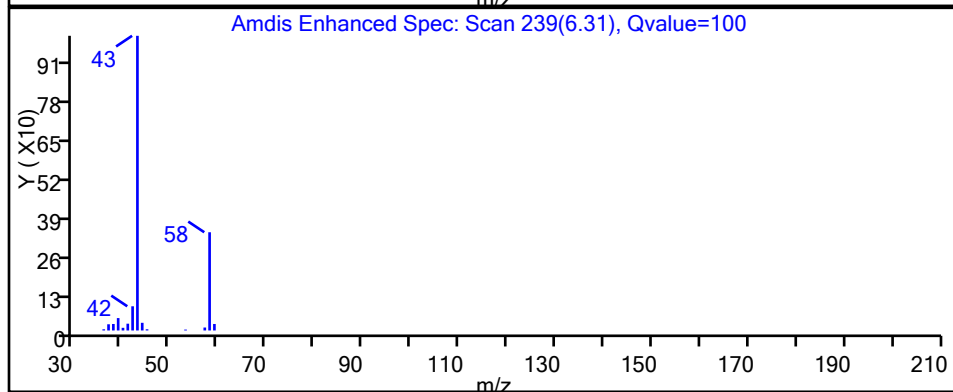
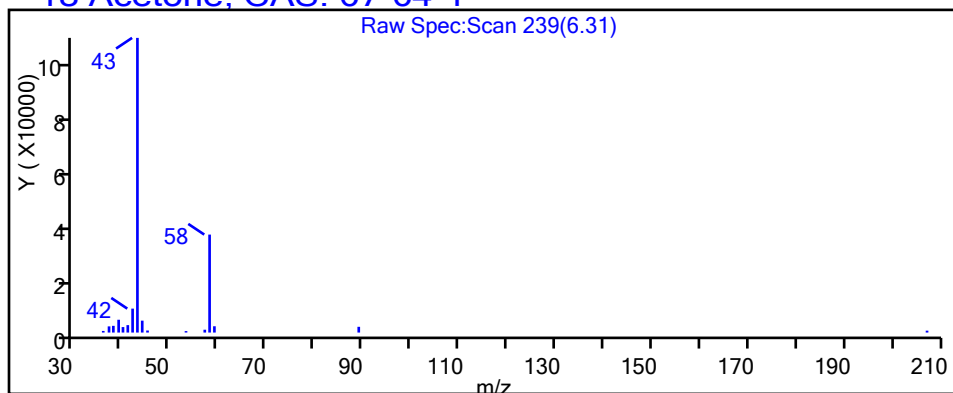
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

18 Acetone, CAS: 67-64-1

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6221.D

Injection Date: 21-Oct-2016 14:34:30

Instrument ID: VMSL

Lims ID: 280-89533-B-4

Lab Sample ID: 160-89533-4

Client ID: 6MW2202

Operator ID: ADB

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

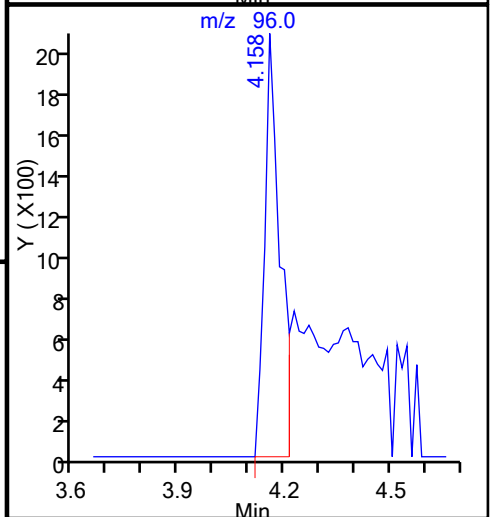
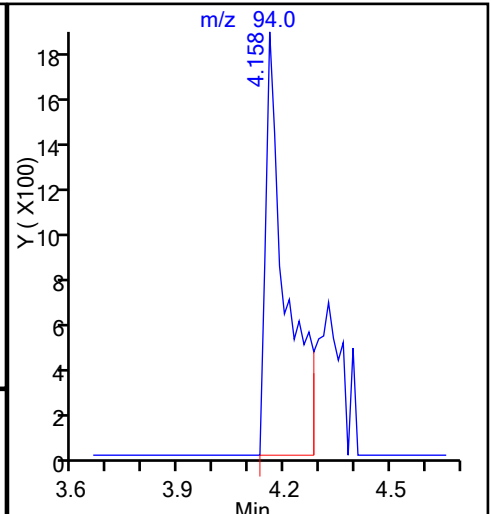
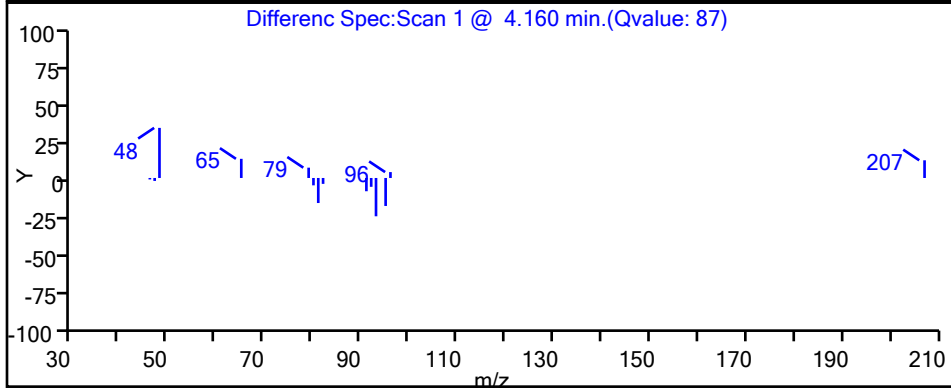
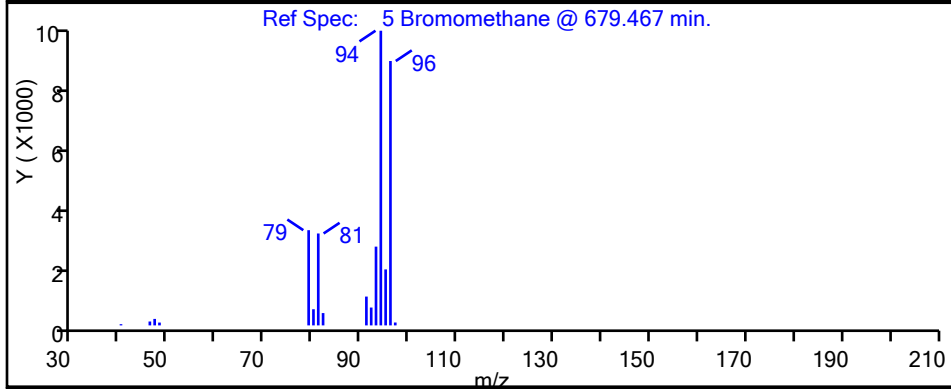
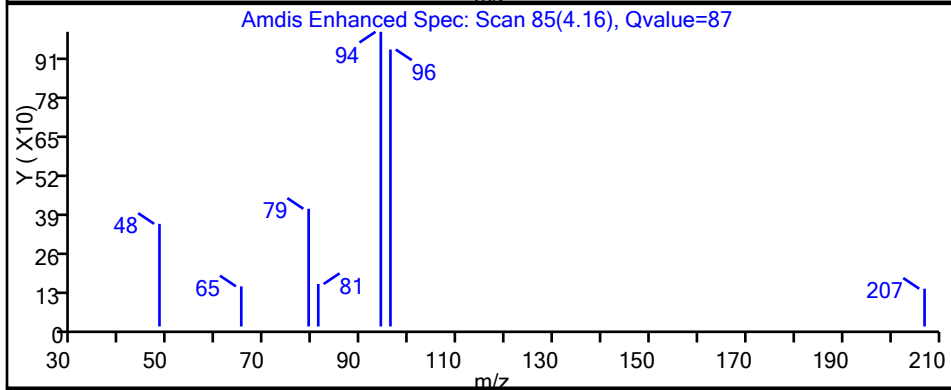
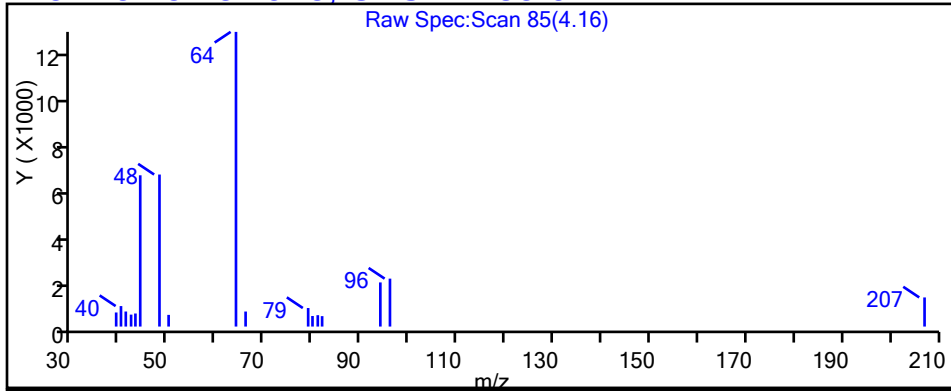
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

5 Bromomethane, CAS: 74-83-9

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6221.D

Injection Date: 21-Oct-2016 14:34:30

Instrument ID: VMSL

Lims ID: 280-89533-B-4

Lab Sample ID: 160-89533-4

Client ID: 6MW2202

Operator ID: ADB

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

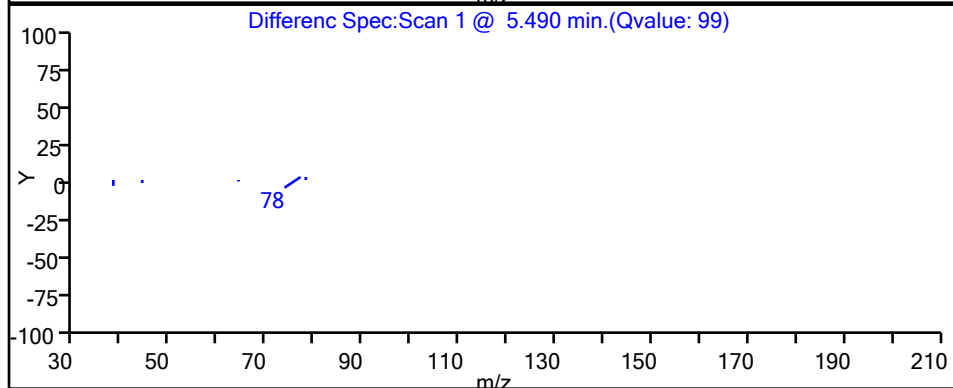
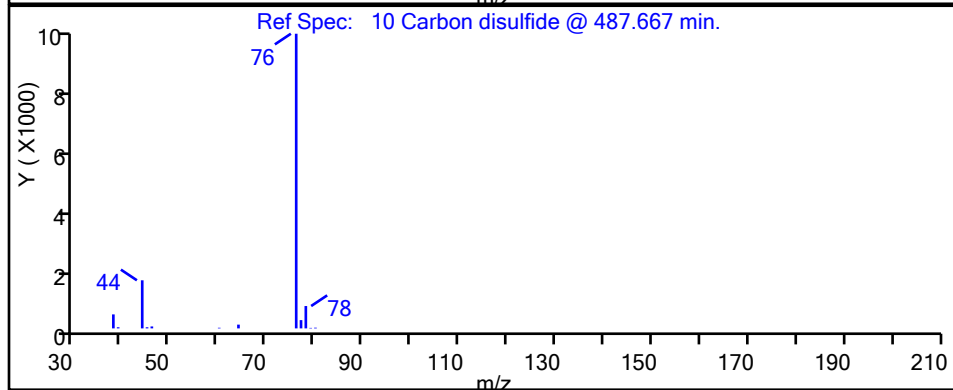
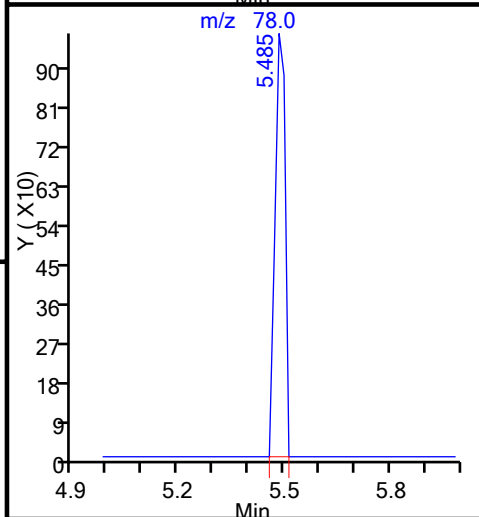
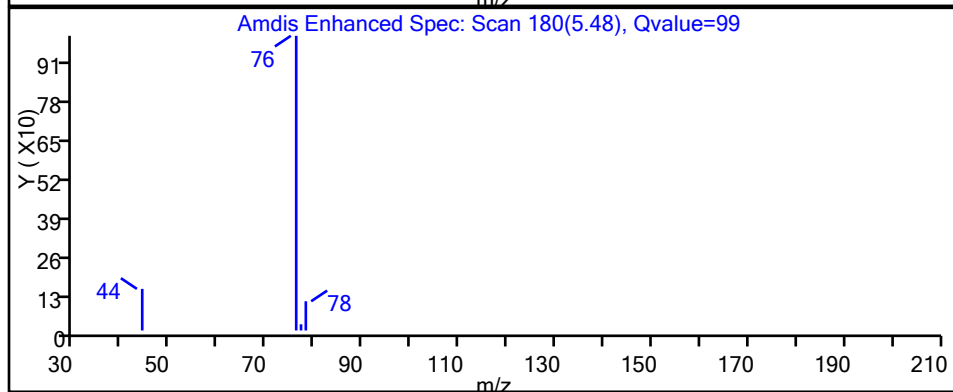
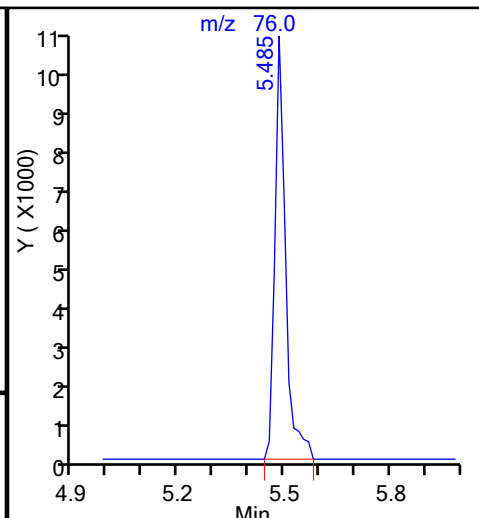
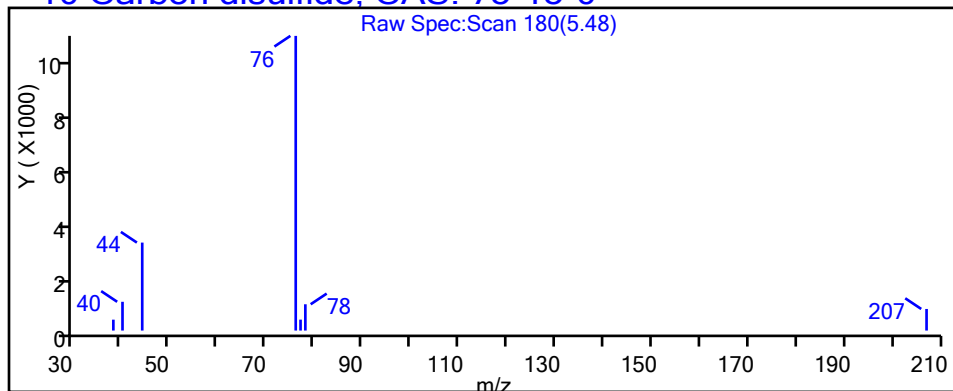
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

10 Carbon disulfide, CAS: 75-15-0

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6221.D

Injection Date: 21-Oct-2016 14:34:30

Instrument ID: VMSL

Lims ID: 280-89533-B-4

Lab Sample ID: 160-89533-4

Client ID: 6MW2202

Operator ID: ADB

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

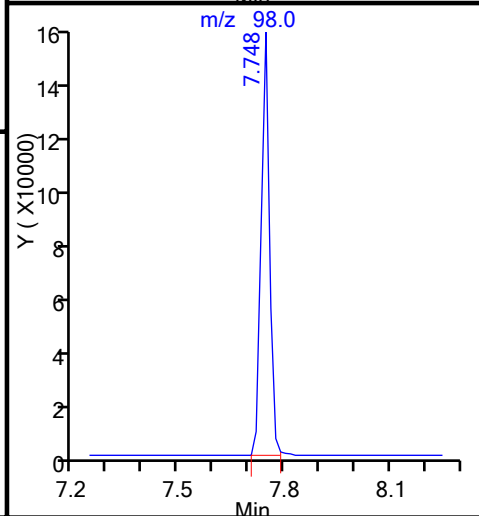
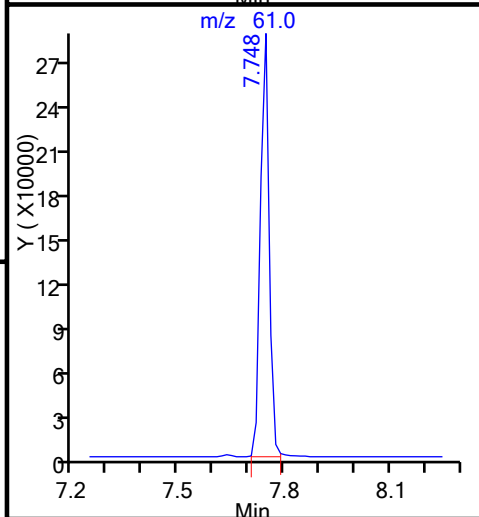
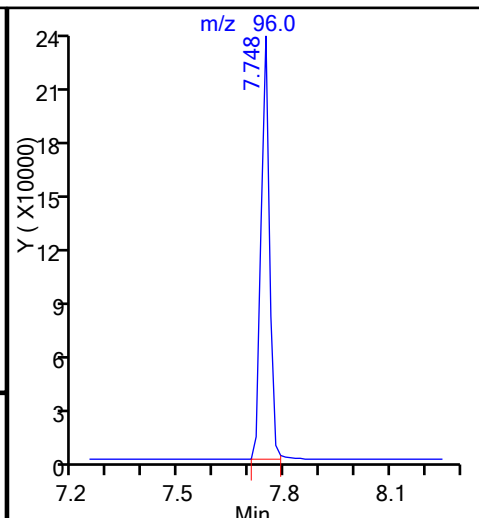
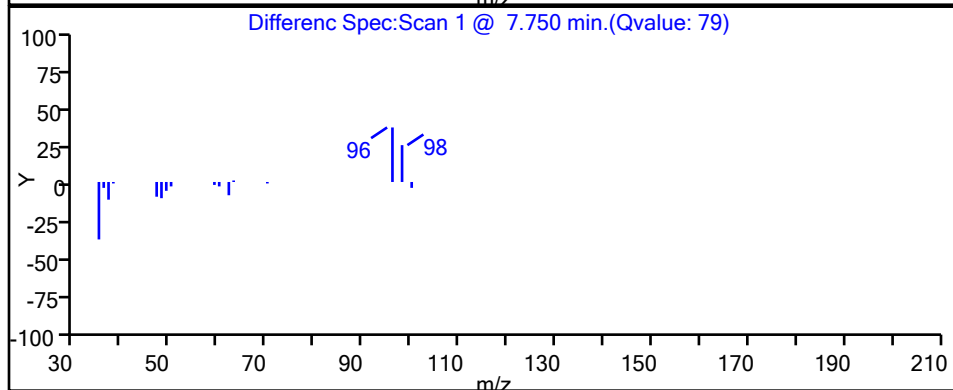
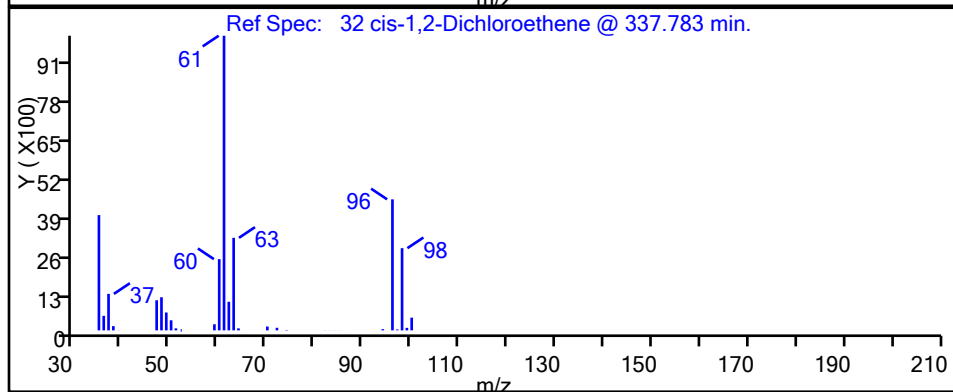
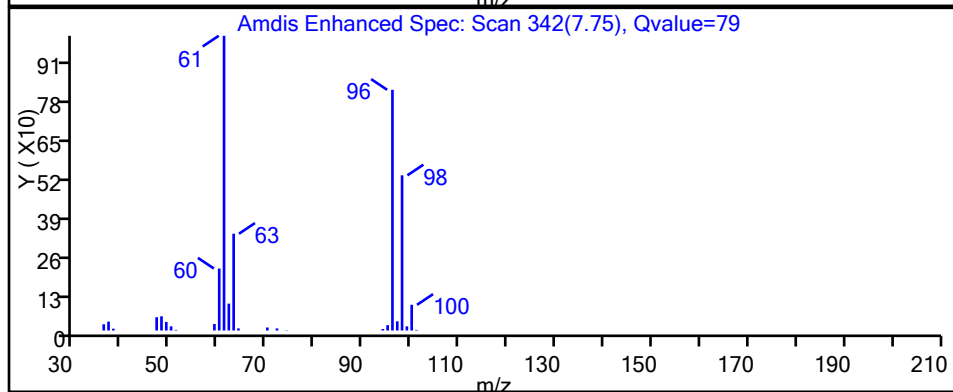
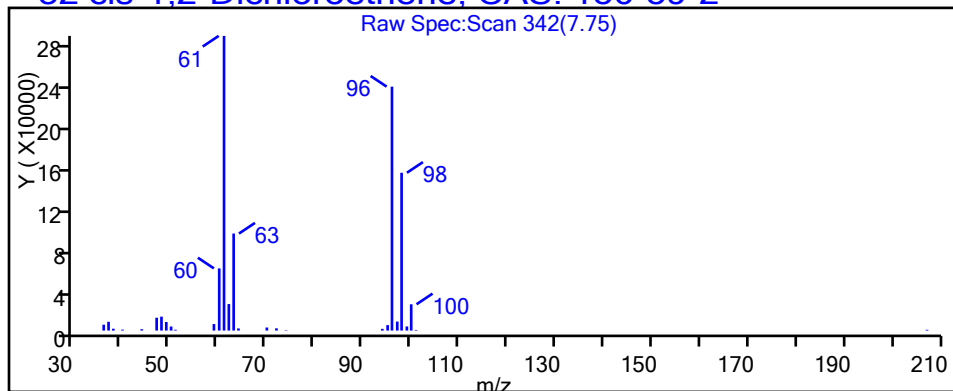
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6221.D

Injection Date: 21-Oct-2016 14:34:30

Instrument ID: VMSL

Lims ID: 280-89533-B-4

Lab Sample ID: 160-89533-4

Client ID: 6MW2202

Operator ID: ADB

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

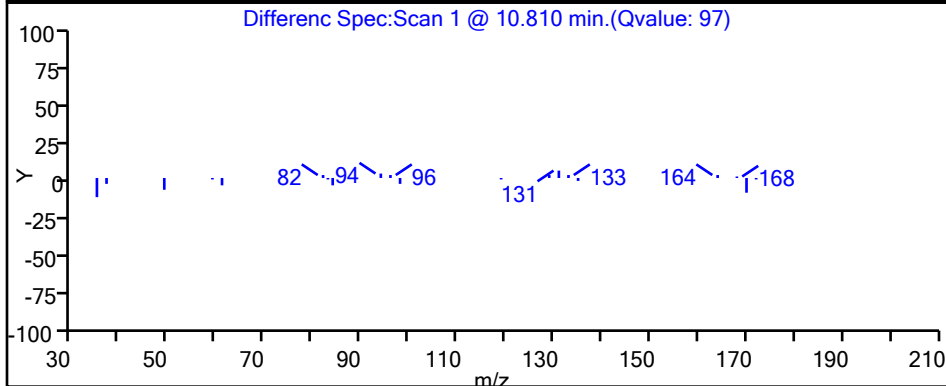
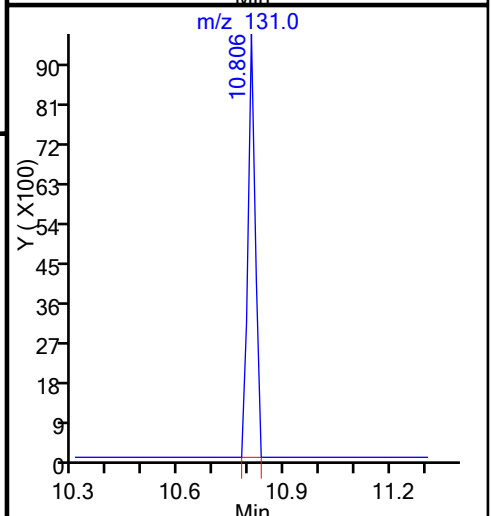
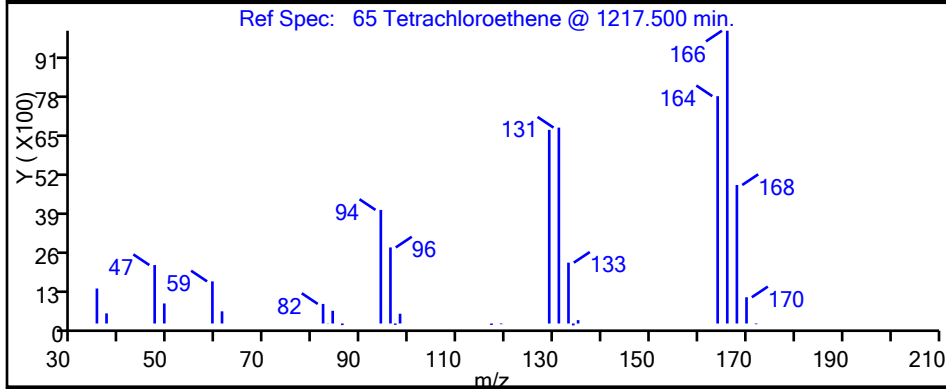
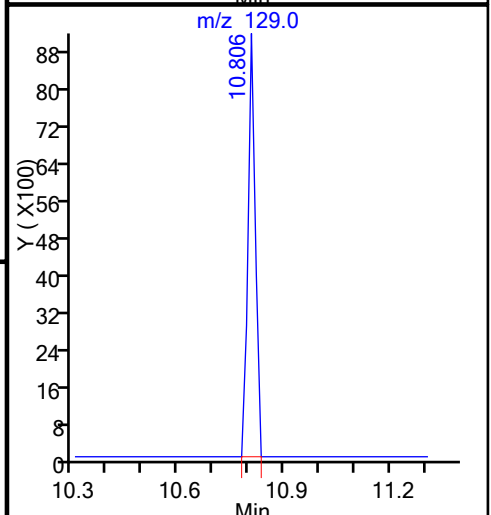
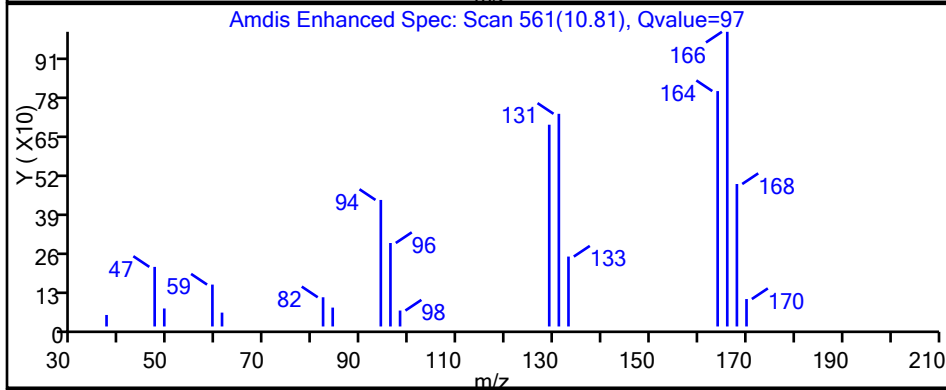
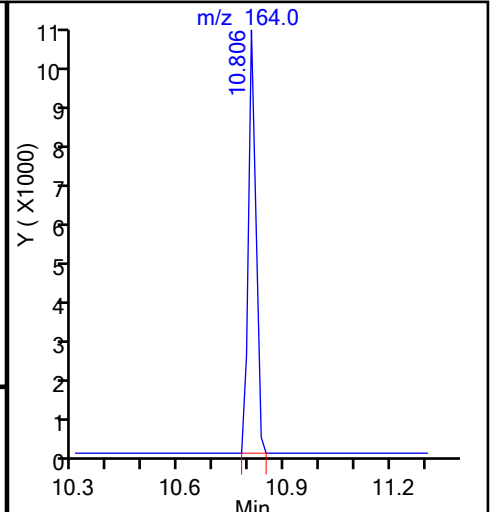
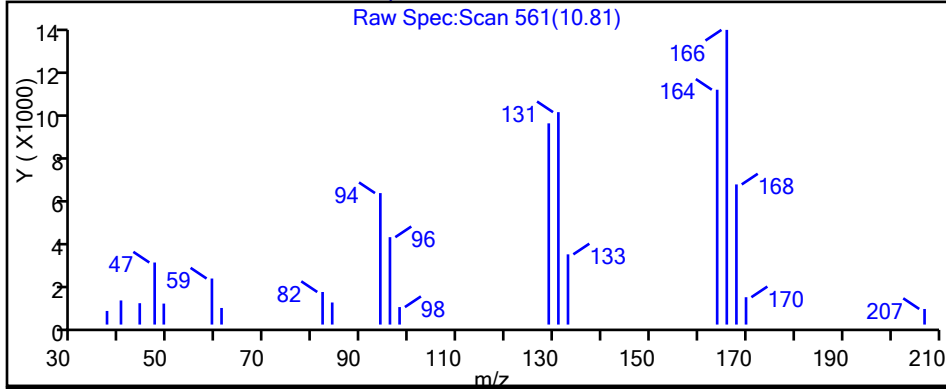
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

65 Tetrachloroethene, CAS: 127-18-4

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6221.D

Injection Date: 21-Oct-2016 14:34:30

Instrument ID: VMSL

Lims ID: 280-89533-B-4

Lab Sample ID: 160-89533-4

Client ID: 6MW2202

Operator ID: ADB

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

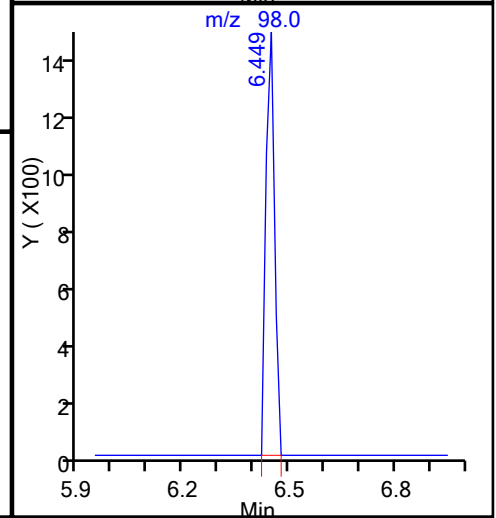
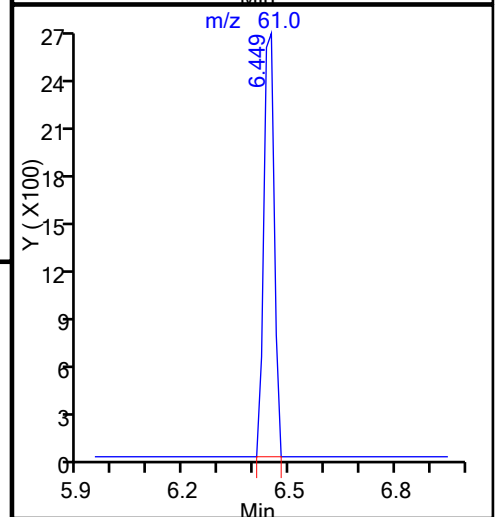
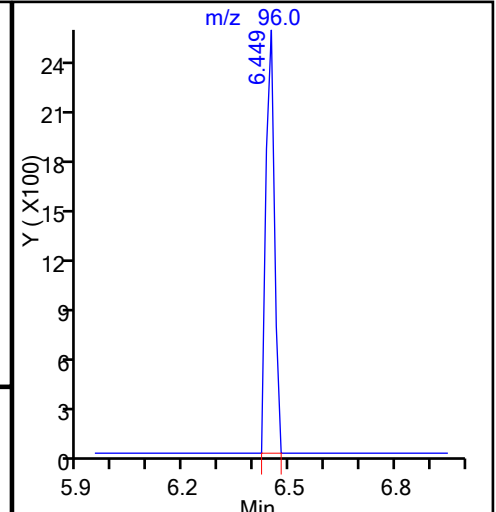
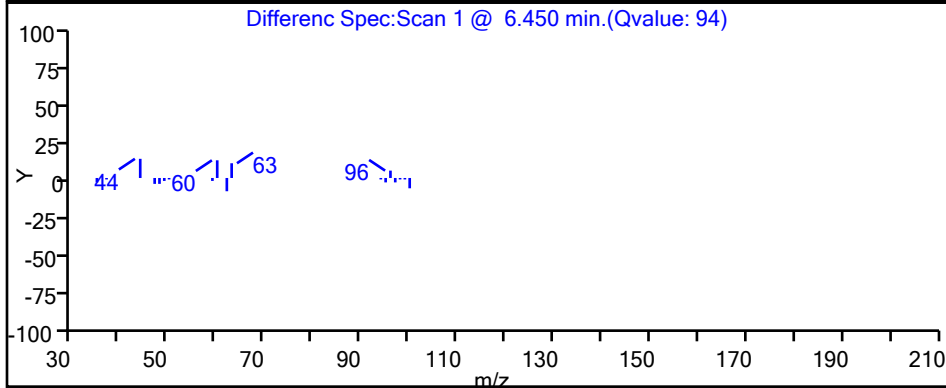
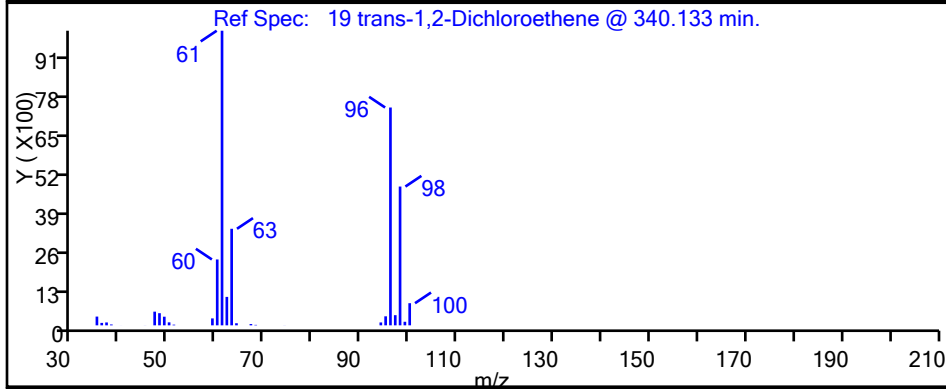
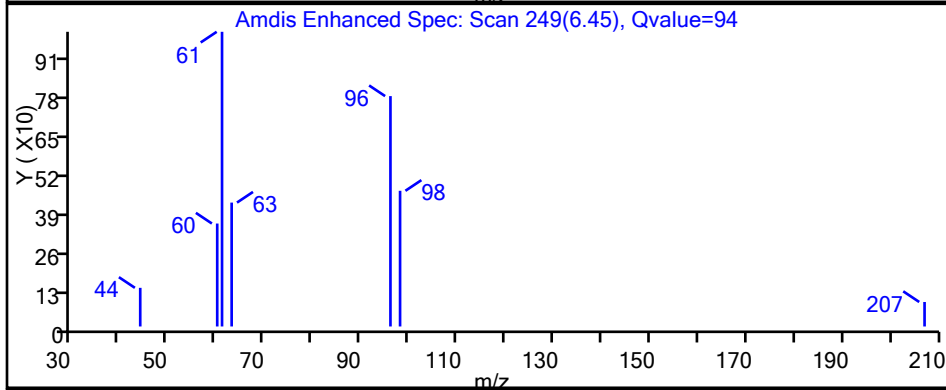
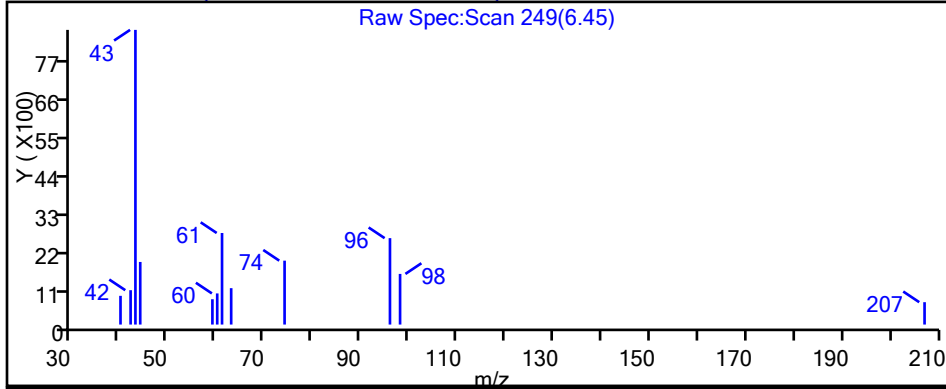
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6221.D

Injection Date: 21-Oct-2016 14:34:30

Instrument ID: VMSL

Lims ID: 280-89533-B-4

Lab Sample ID: 160-89533-4

Client ID: 6MW2202

Operator ID: ADB

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

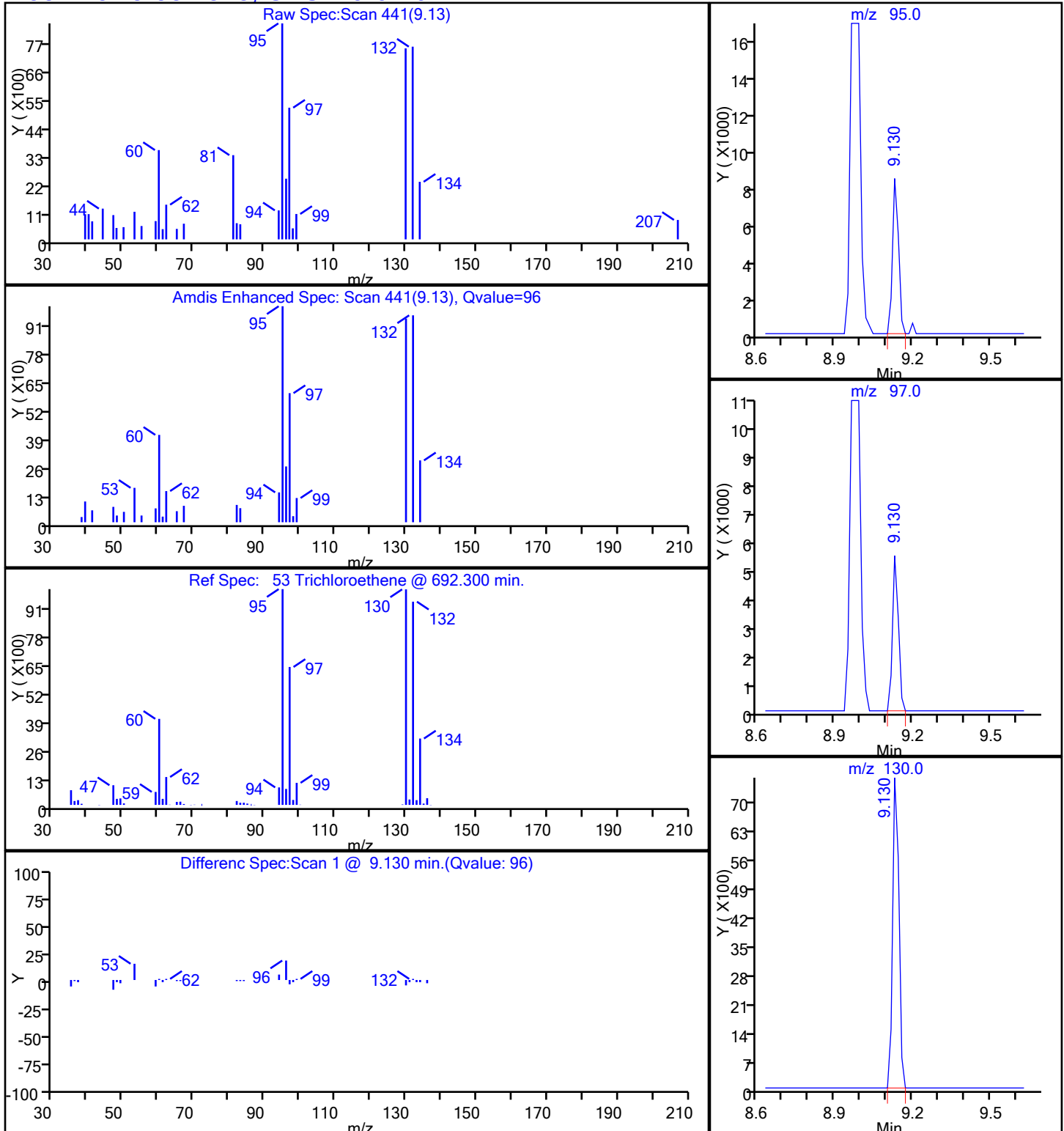
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6221.D

Injection Date: 21-Oct-2016 14:34:30

Instrument ID: VMSL

Lims ID: 280-89533-B-4

Lab Sample ID: 160-89533-4

Client ID: 6MW2202

Operator ID: ADB

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

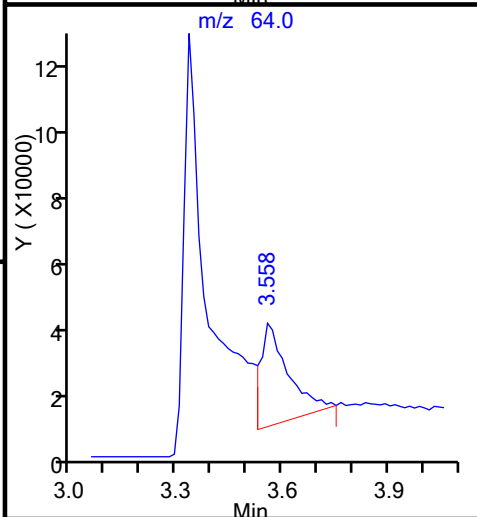
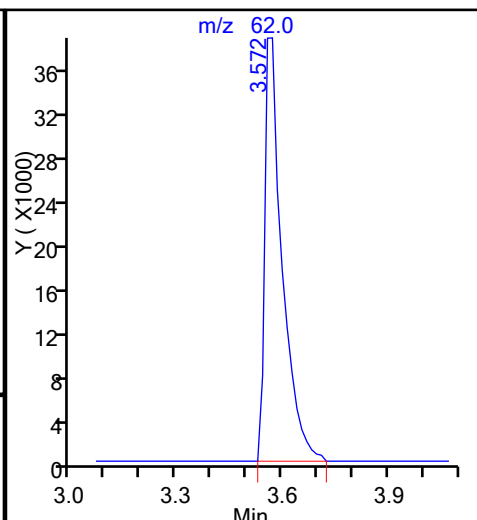
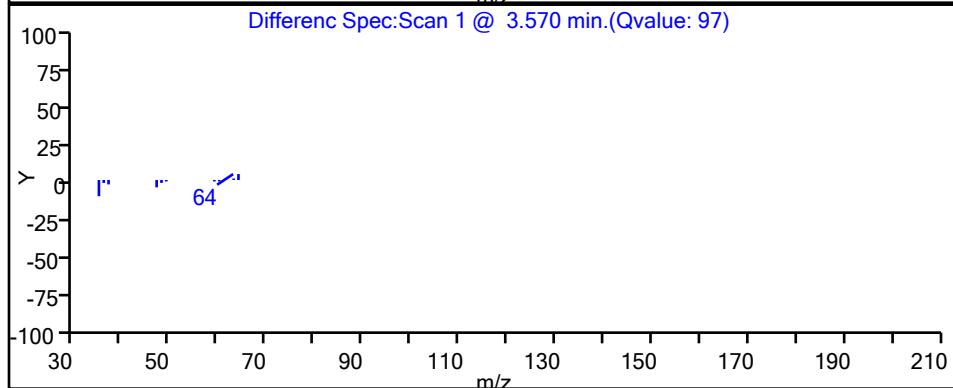
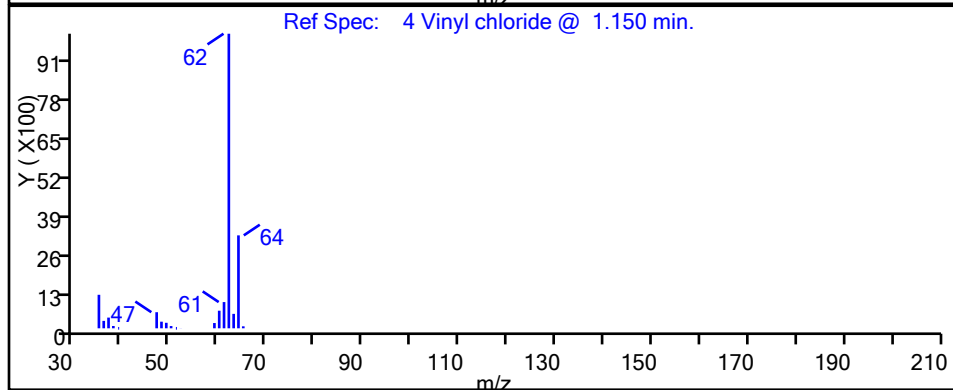
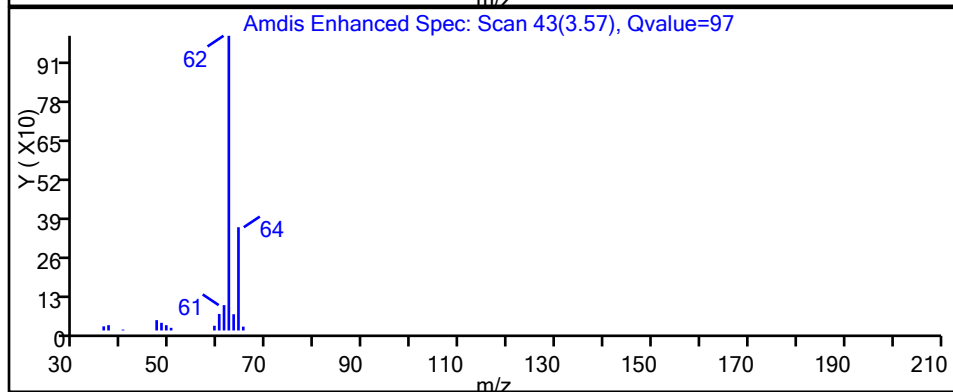
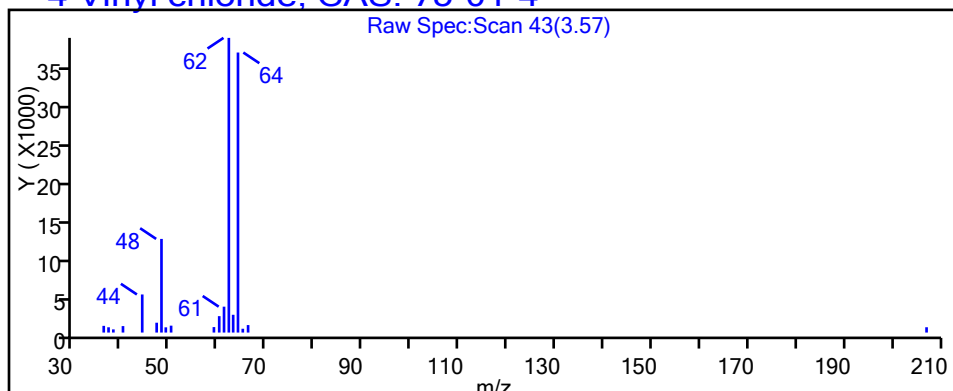
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: 6MW2402 Lab Sample ID: 280-89533-5

Matrix: Water Lab File ID: LSMP6222.D

Analysis Method: 8260C DOD Date Collected: 10/11/2016 10:03

Sample wt/vol: 5(mL) Date Analyzed: 10/21/2016 14:59

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	3.9	J	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	1.0	J	10	2.0	0.40
75-15-0	Carbon disulfide	1.3	J	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	13		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica St. Louis</u>	Job No.: <u>280-89533-1</u>
SDG No.: _____	
Client Sample ID: <u>6MW2402</u>	Lab Sample ID: <u>280-89533-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>LSMP6222.D</u>
Analysis Method: <u>8260C DOD</u>	Date Collected: <u>10/11/2016 10:03</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>10/21/2016 14:59</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RTXVMS30</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275504</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.32	J	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	4.9	J	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	4.8	J	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		81-118
460-00-4	4-Bromofluorobenzene (Surr)	112		85-114
1868-53-7	Dibromofluoromethane (Surr)	105		80-119
2037-26-5	Toluene-d8 (Surr)	102		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6222.D
 Lims ID: 280-89533-B-5
 Client ID: 6MW2402
 Sample Type: Client
 Inject. Date: 21-Oct-2016 14:59:30 ALS Bottle#: 13 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0008795-015
 Misc. Info.: 280-89533-b-5
 Operator ID: ADB Instrument ID: VMSL
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 11:50:18 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: buettnera Date: 24-Oct-2016 11:34:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.055				ND	
3 Chloromethane	50		3.404				ND	
4 Vinyl chloride	62	3.572	3.558	0.014	97	68469	4.82	
5 Bromomethane	94	4.158	4.158	0.000	92	7617	1.01	
6 Chloroethane	64		4.382				ND	
7 Trichlorofluoromethane	101		4.619				ND	
9 1,1-Dichloroethene	96		5.443				ND	
10 Carbon disulfide	76	5.485	5.485	0.000	99	51053	1.35	
17 Methylene Chloride	84		6.239				ND	
18 Acetone	43	6.309	6.309	0.000	98	13538	4.80	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	94	3483	0.3233	
22 Methyl tert-butyl ether	73		6.560				ND	
28 1,1-Dichloroethane	63		7.161				ND	
32 cis-1,2-Dichloroethene	96	7.748	7.748	0.000	79	137219	13.0	
33 2,2-Dichloropropane	77		7.859				ND	
35 Chlorobromomethane	128		7.957				ND	
36 Chloroform	83		8.013				ND	
37 Carbon tetrachloride	117		8.167				ND	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.195	0.000	93	409791	52.7	
40 1,1,1-Trichloroethane	97		8.236				ND	
43 2-Butanone (MEK)	43	8.320	8.306	0.014	99	7807	3.90	
42 1,1-Dichloropropene	75		8.348				ND	
44 Benzene	78		8.600				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	95	441943	52.3	
49 1,2-Dichloroethane	62		8.795				ND	
* 51 Fluorobenzene	96	8.977	8.977	0.000	99	2004226	50.0	
53 Trichloroethene	95	9.130	9.130	0.000	98	56613	4.86	
55 Dibromomethane	93		9.549				ND	
56 1,2-Dichloropropane	63		9.633				ND	
57 Dichlorobromomethane	83		9.661				ND	
61 cis-1,3-Dichloropropene	75		10.234				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	1809534	51.1	
63 Toluene	92	10.443	10.443	0.000	32	4591	0.1683	
66 4-Methyl-2-pentanone (MIBK)	43		10.750				ND	
67 trans-1,3-Dichloropropene	75		10.806				ND	
65 Tetrachloroethene	164		10.806				ND	
68 1,1,2-Trichloroethane	83		10.960				ND	
70 Chlorodibromomethane	129		11.141				ND	
71 1,3-Dichloropropane	76		11.225				ND	
72 Ethylene Dibromide	107		11.393				ND	
74 2-Hexanone	43		11.491				ND	
78 Ethylbenzene	91		11.826				ND	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	86	1412463	50.0	
77 Chlorobenzene	112		11.840				ND	
79 1,1,1,2-Tetrachloroethane	131		11.882				ND	
80 m-Xylene & p-Xylene	106		11.951				ND	
82 o-Xylene	106		12.356				ND	
83 Styrene	104		12.398				ND	
84 Bromoform	173		12.468				ND	
85 Isopropylbenzene	105		12.622				ND	
\$ 86 4-Bromofluorobenzene (Surr)	95	12.929	12.929	0.000	92	596088	55.8	
88 N-Propylbenzene	91		13.013				ND	
87 Bromobenzene	156		13.055				ND	
89 1,1,2,2-Tetrachloroethane	83		13.083				ND	
91 1,3,5-Trimethylbenzene	105		13.180				ND	
90 2-Chlorotoluene	91		13.194				ND	
92 1,2,3-Trichloropropane	110		13.236				ND	
95 4-Chlorotoluene	91		13.348				ND	
96 tert-Butylbenzene	119		13.502				ND	
97 1,2,4-Trimethylbenzene	105		13.558				ND	
98 sec-Butylbenzene	105		13.669				ND	
99 4-Isopropyltoluene	119		13.781				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.991	0.000	96	647329	50.0	
103 n-Butylbenzene	134		14.200				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.220				ND	
110 Naphthalene	128		16.239				ND	
111 1,2,3-Trichlorobenzene	180		16.435				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00066

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6222.D

Injection Date: 21-Oct-2016 14:59:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: 280-89533-B-5

Lab Sample ID: 160-89533-5

Worklist Smp#: 15

Client ID: 6MW2402

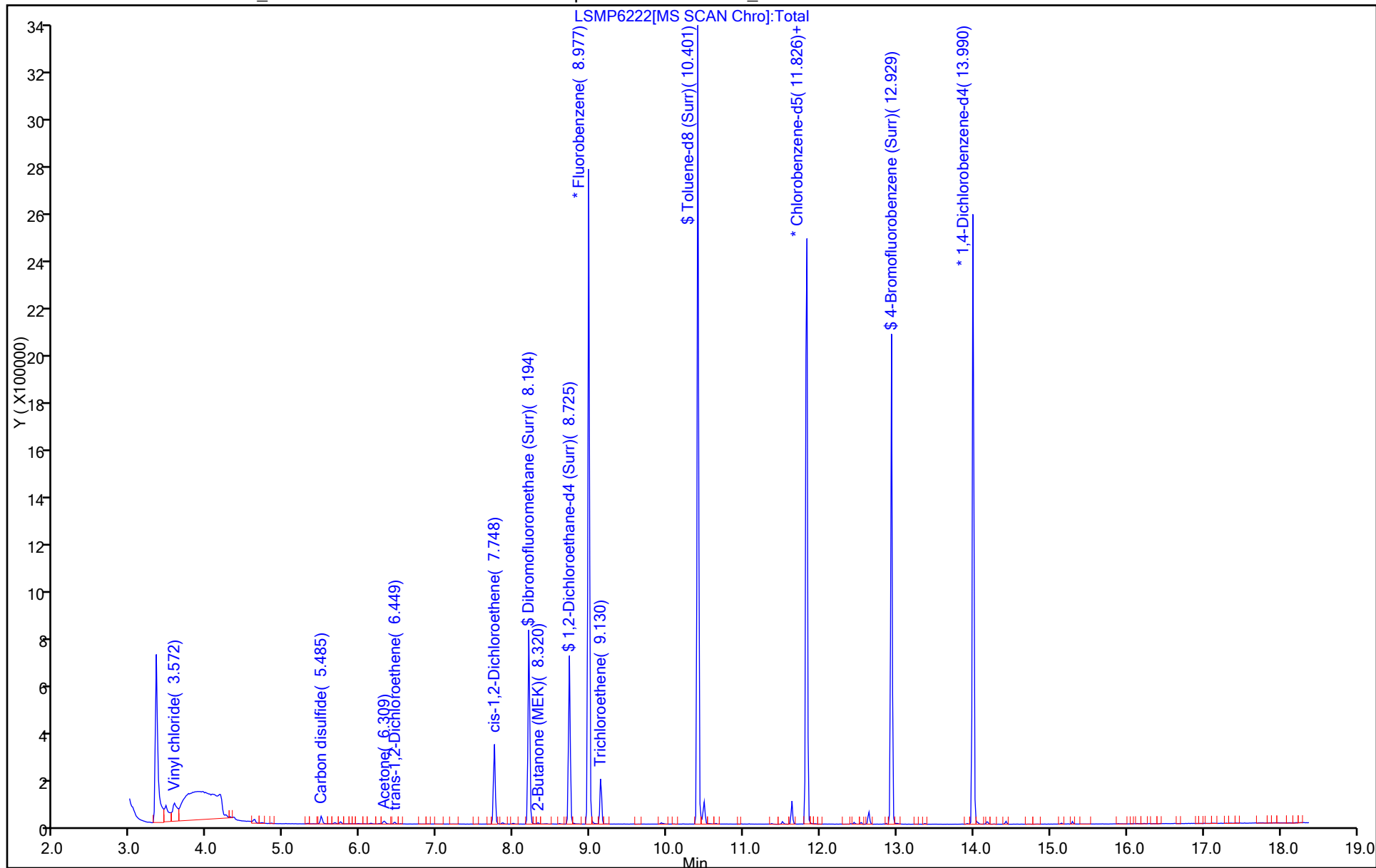
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSP6222.D
Lims ID: 280-89533-B-5
Client ID: 6MW2402
Sample Type: Client
Inject. Date: 21-Oct-2016 14:59:30 ALS Bottle#: 13 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0008795-015
Misc. Info.: 280-89533-b-5
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 24-Oct-2016 11:50:18 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN

Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:34:43

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	52.7	105.45
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	52.3	104.57
\$ 62 Toluene-d8 (Surr)	50.0	51.1	102.11
\$ 86 4-Bromofluorobenzene (Surr)	50.0	55.8	111.63

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6222.D

Injection Date: 21-Oct-2016 14:59:30

Instrument ID: VMSL

Lims ID: 280-89533-B-5

Lab Sample ID: 160-89533-5

Client ID: 6MW2402

Operator ID: ADB

ALS Bottle#: 13

Worklist Smp#: 15

Purge Vol: 5.000 mL

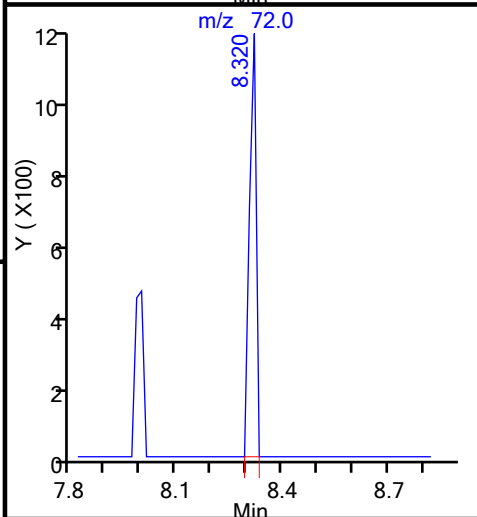
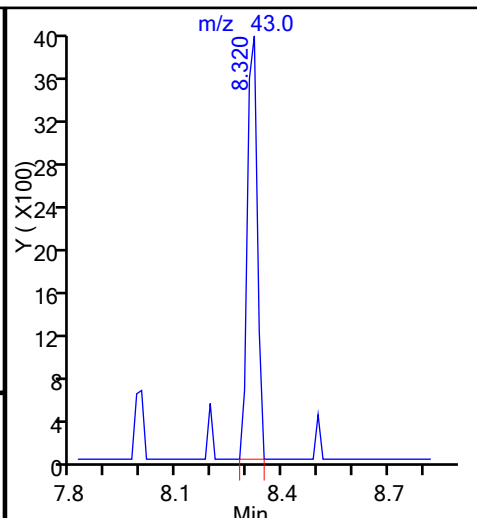
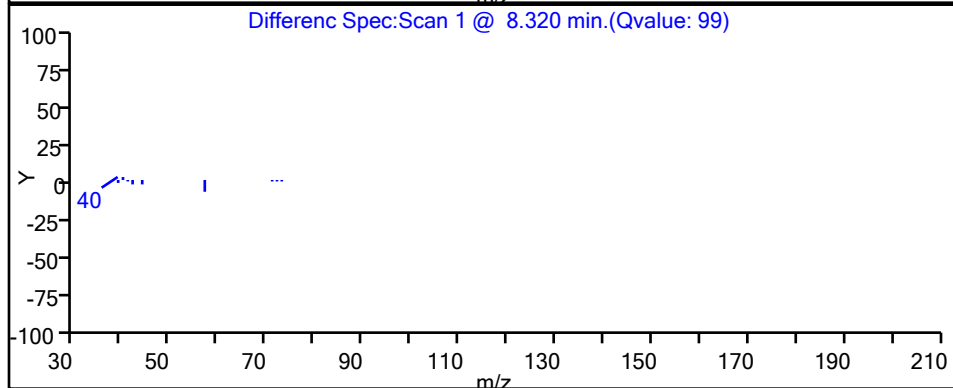
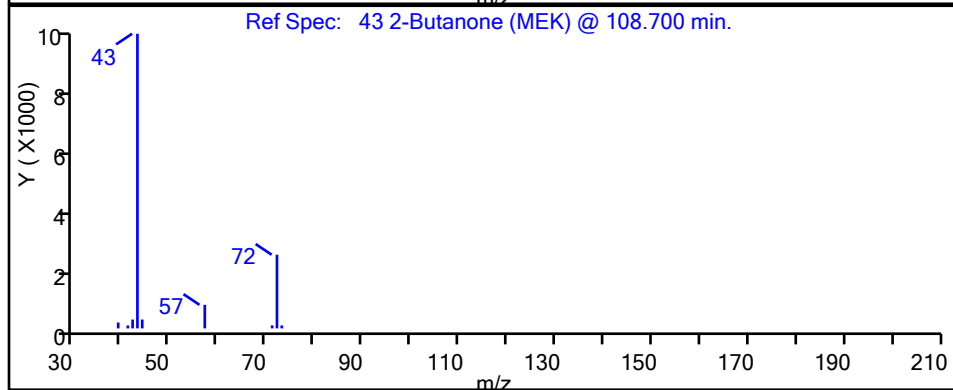
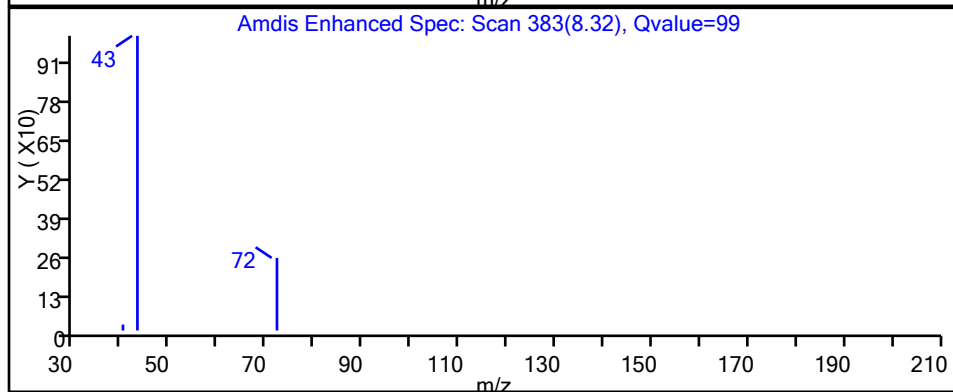
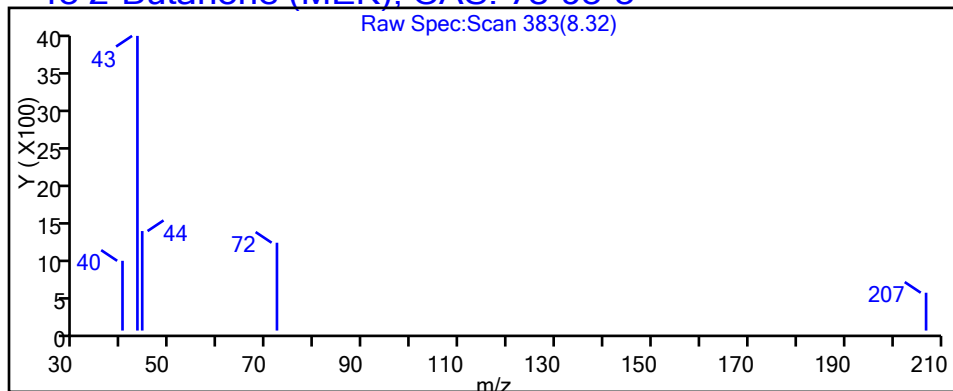
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

43 2-Butanone (MEK). CAS: 78-93-3

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6222.D

Injection Date: 21-Oct-2016 14:59:30

Instrument ID: VMSL

Lims ID: 280-89533-B-5

Lab Sample ID: 160-89533-5

Client ID: 6MW2402

Operator ID: ADB

ALS Bottle#: 13

Worklist Smp#: 15

Purge Vol: 5.000 mL

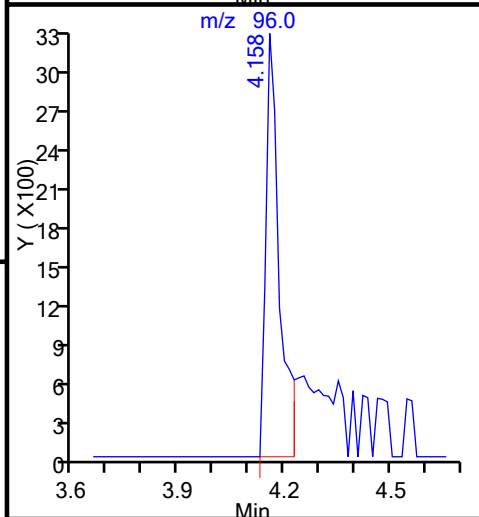
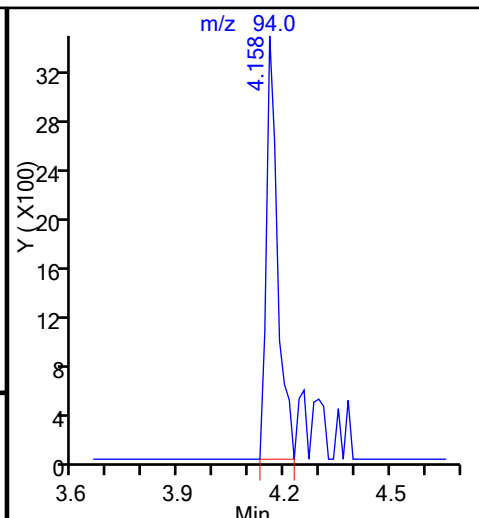
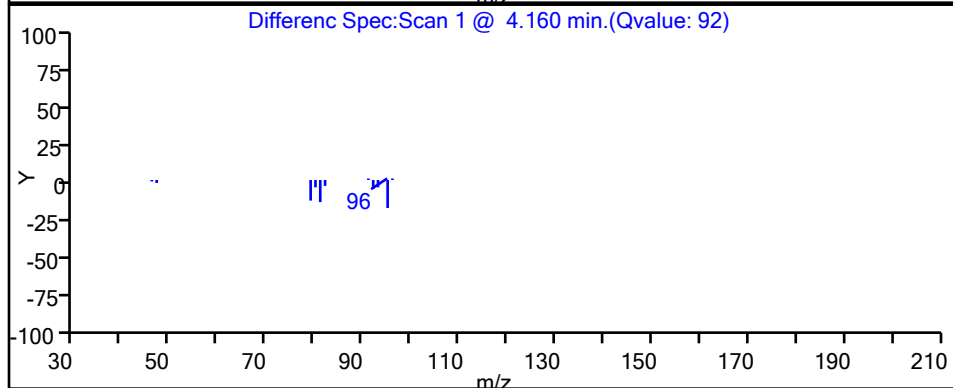
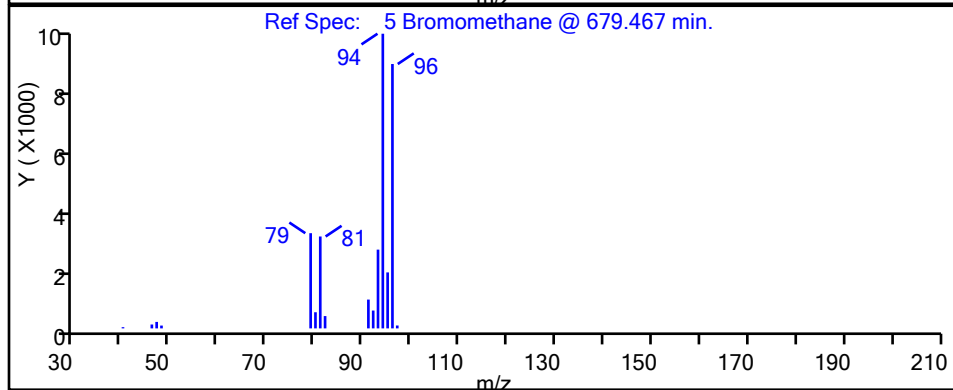
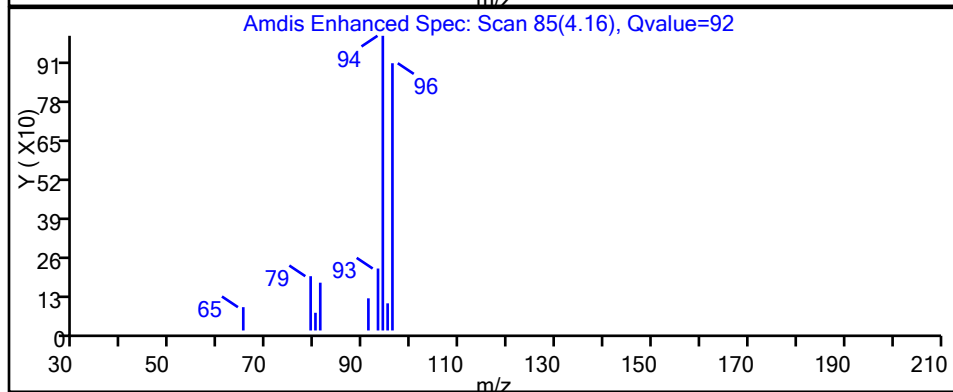
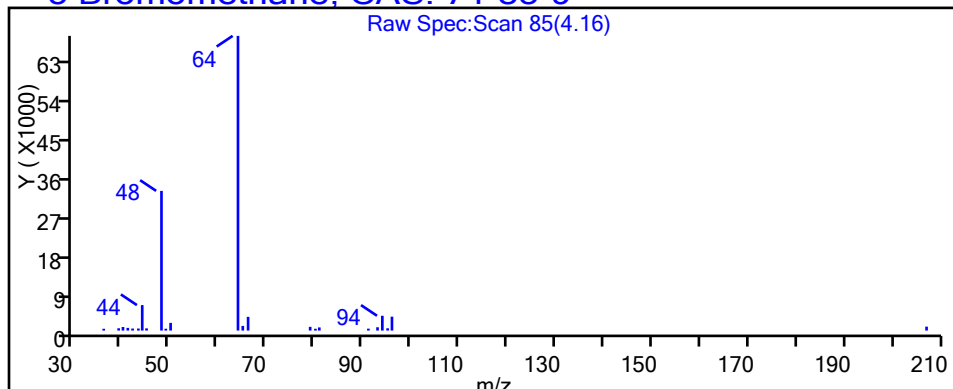
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector: MS SCAN

5 Bromomethane, CAS: 74-83-9

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6222.D

Injection Date: 21-Oct-2016 14:59:30

Instrument ID: VMSL

Lims ID: 280-89533-B-5

Lab Sample ID: 160-89533-5

Client ID: 6MW2402

Operator ID: ADB

ALS Bottle#: 13

Worklist Smp#: 15

Purge Vol: 5.000 mL

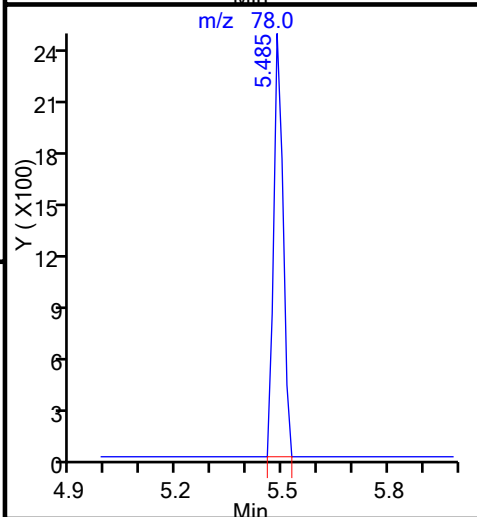
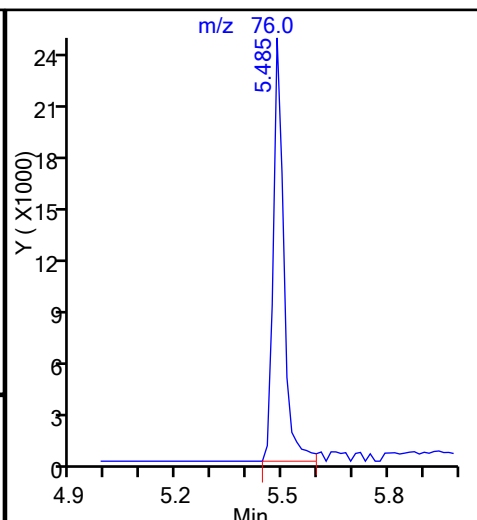
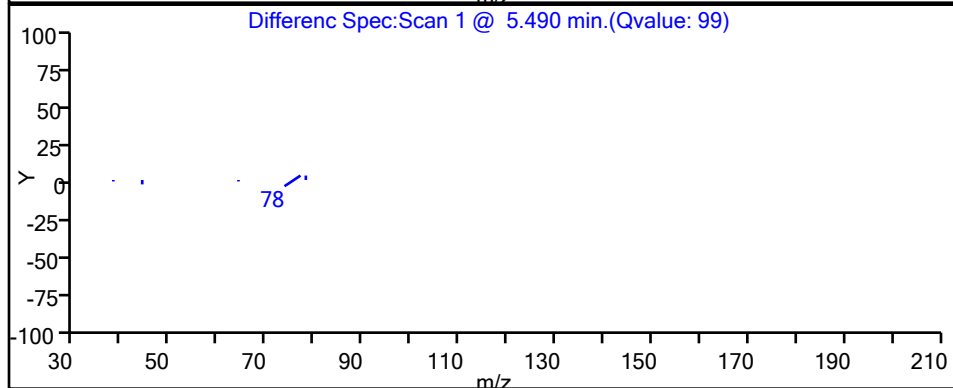
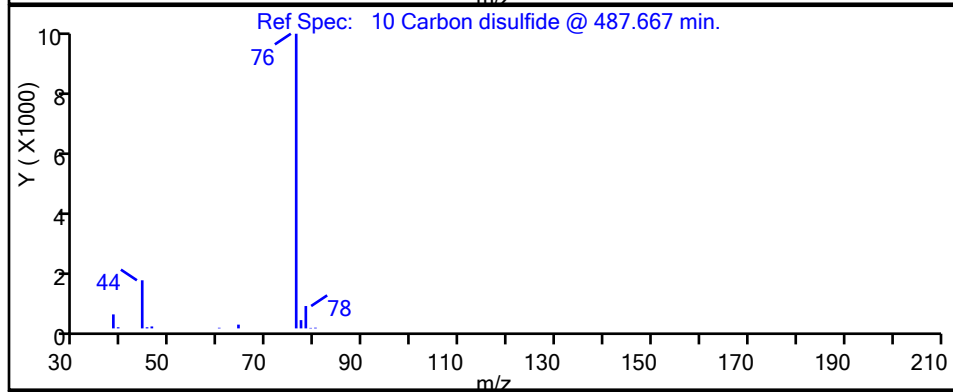
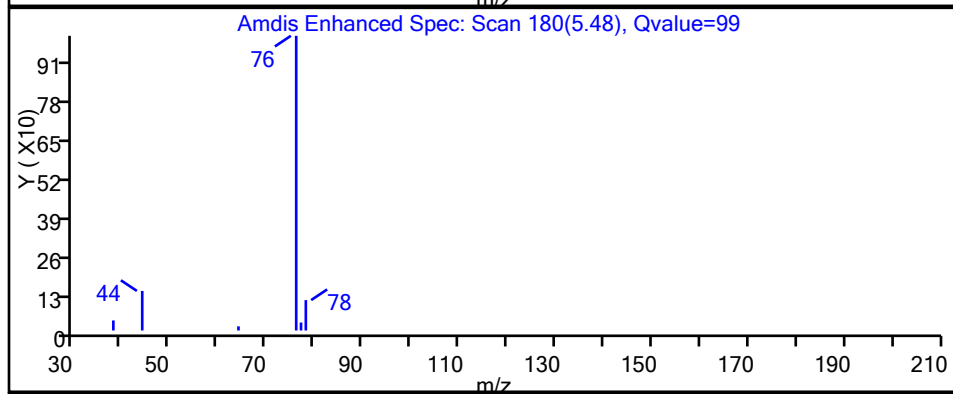
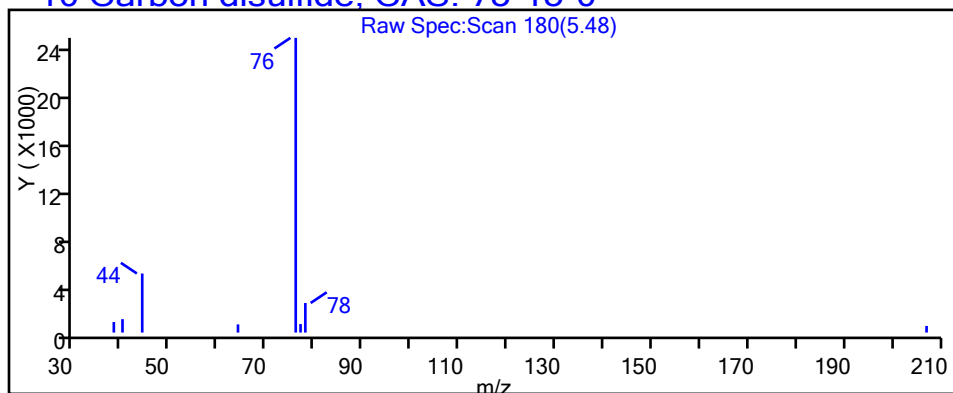
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

10 Carbon disulfide, CAS: 75-15-0

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6222.D

Injection Date: 21-Oct-2016 14:59:30

Instrument ID: VMSL

Lims ID: 280-89533-B-5

Lab Sample ID: 160-89533-5

Client ID: 6MW2402

Operator ID: ADB

ALS Bottle#: 13

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

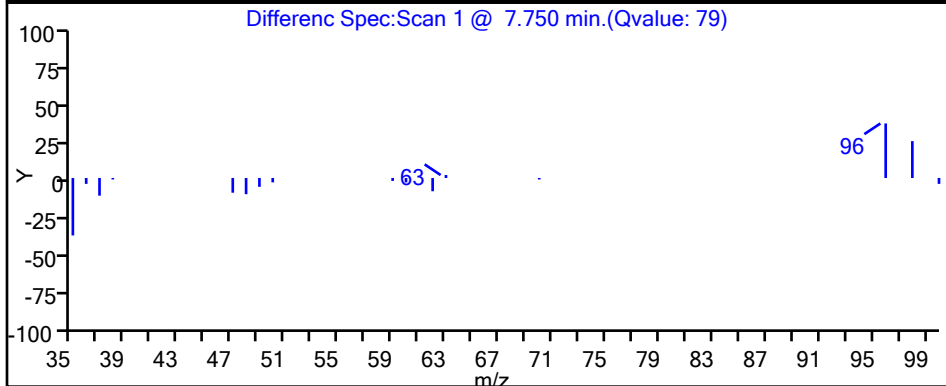
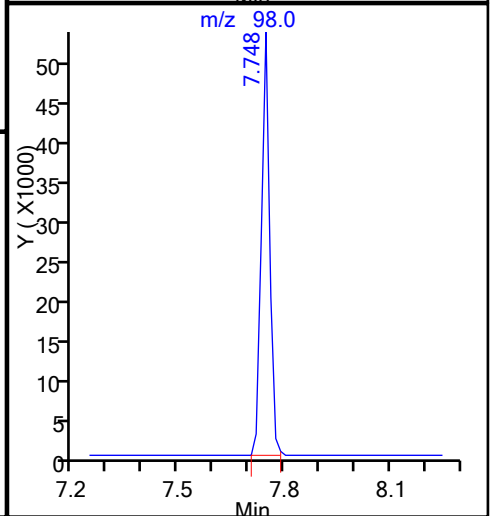
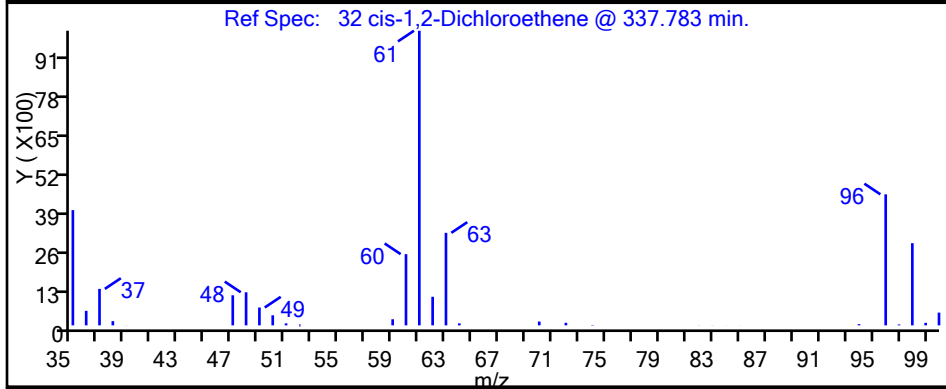
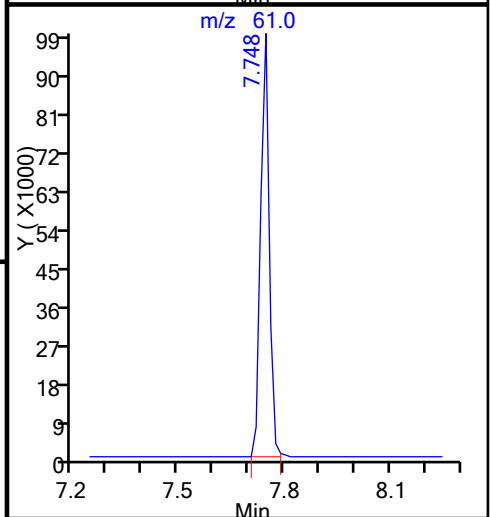
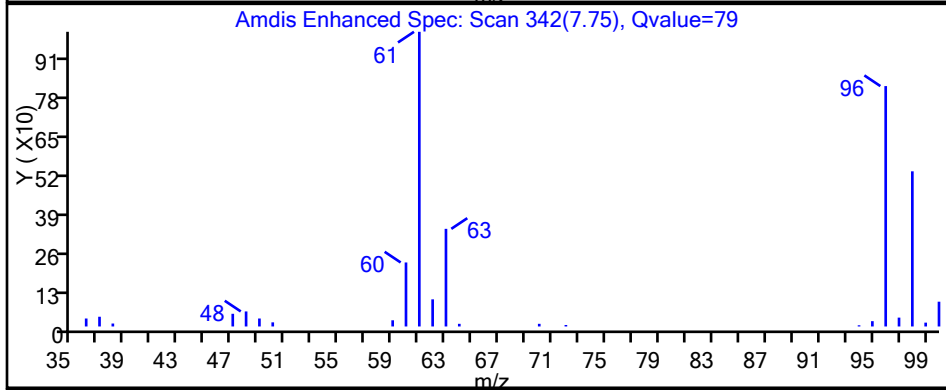
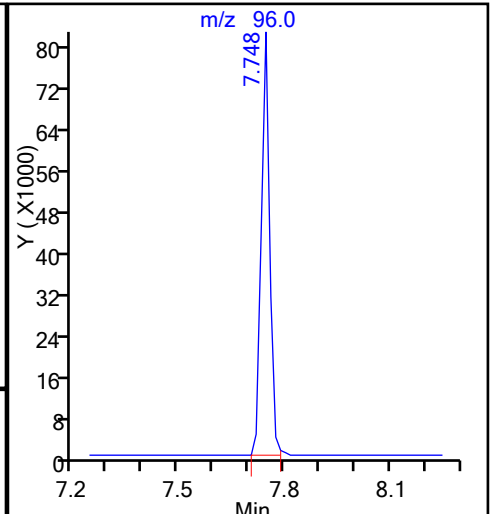
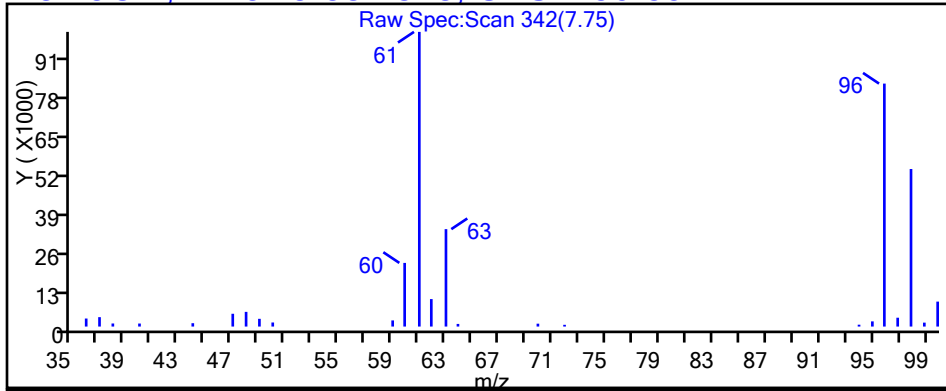
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6222.D

Injection Date: 21-Oct-2016 14:59:30

Instrument ID: VMSL

Lims ID: 280-89533-B-5

Lab Sample ID: 160-89533-5

Client ID: 6MW2402

Operator ID: ADB

ALS Bottle#: 13

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

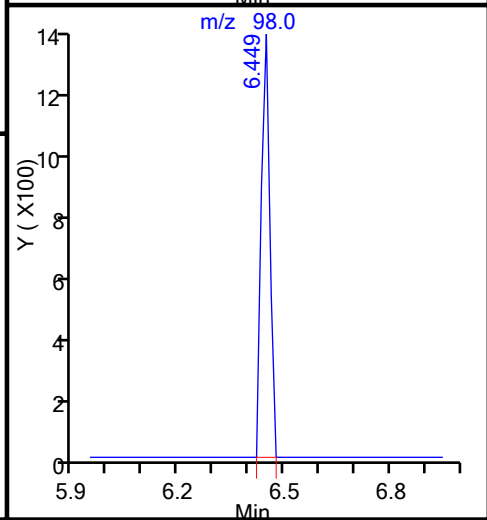
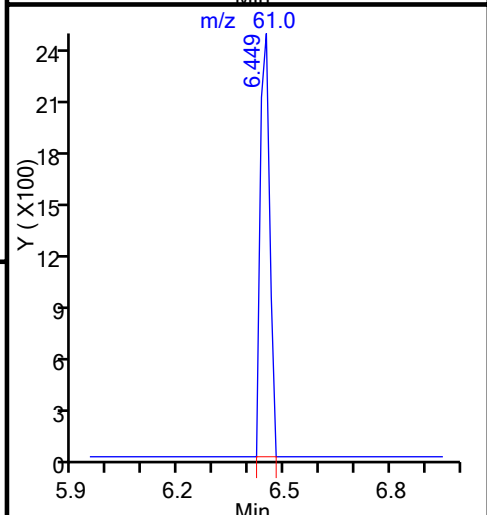
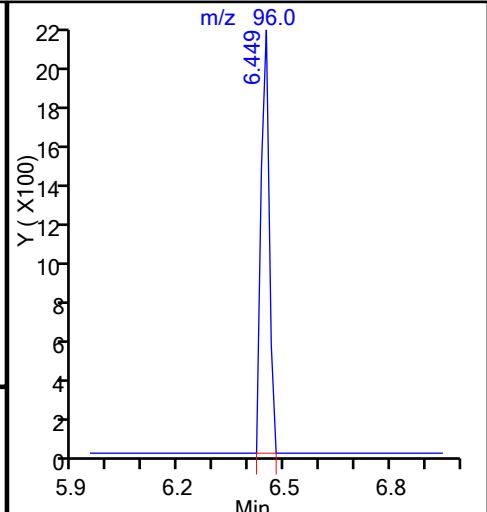
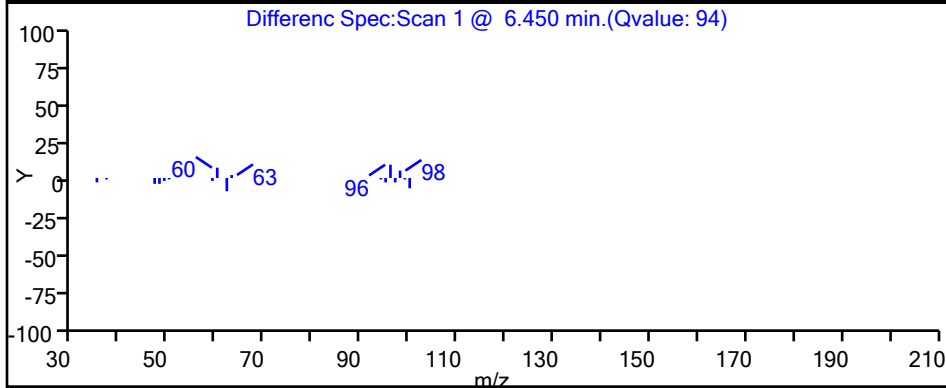
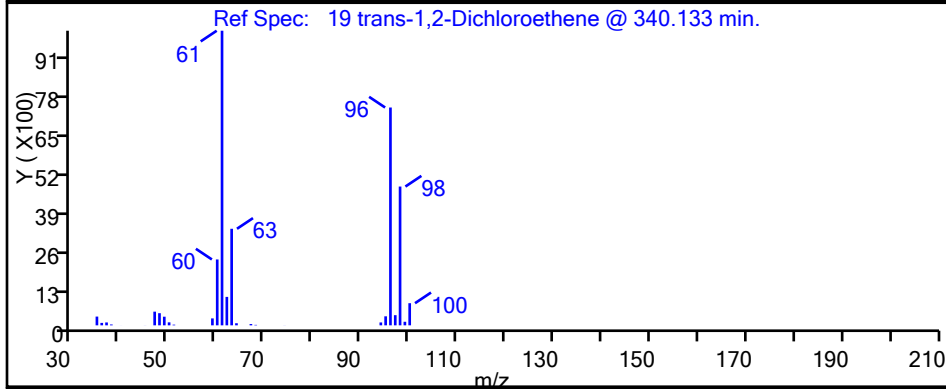
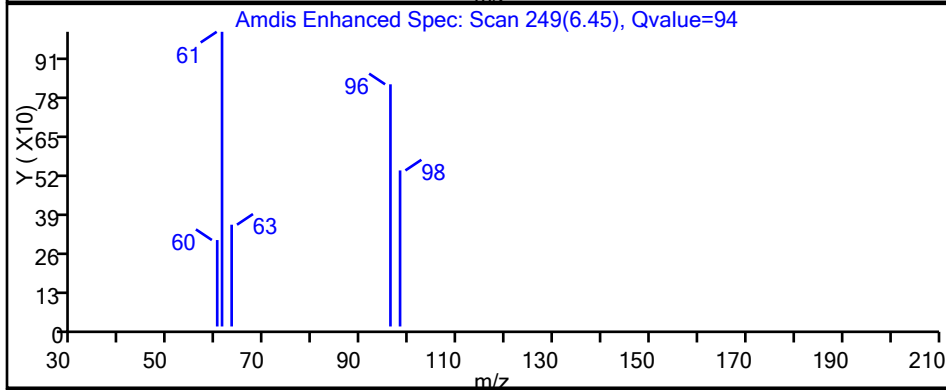
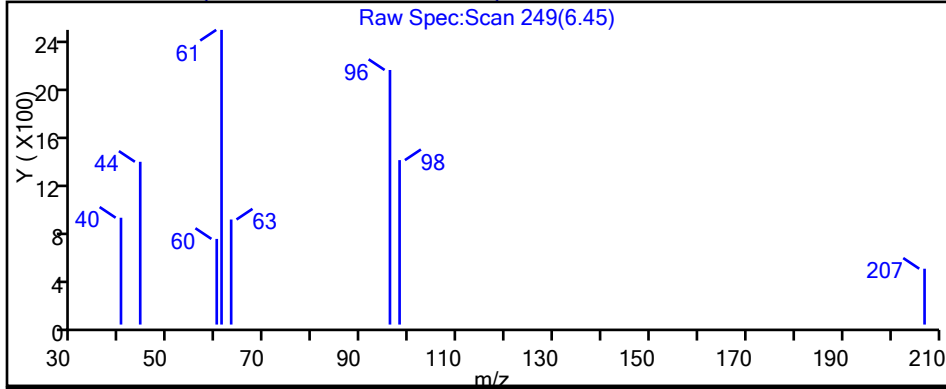
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6222.D

Injection Date: 21-Oct-2016 14:59:30

Instrument ID: VMSL

Lims ID: 280-89533-B-5

Lab Sample ID: 160-89533-5

Client ID: 6MW2402

Operator ID: ADB

ALS Bottle#: 13

Worklist Smp#: 15

Purge Vol: 5.000 mL

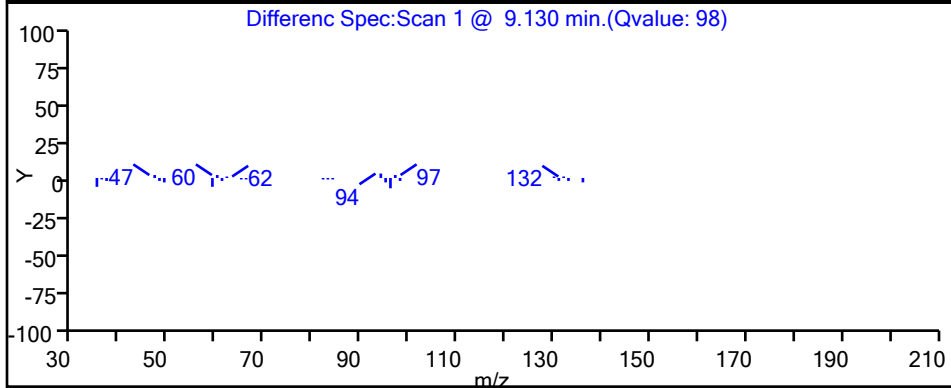
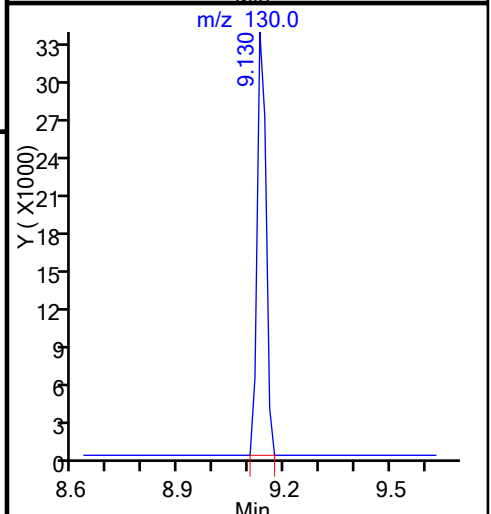
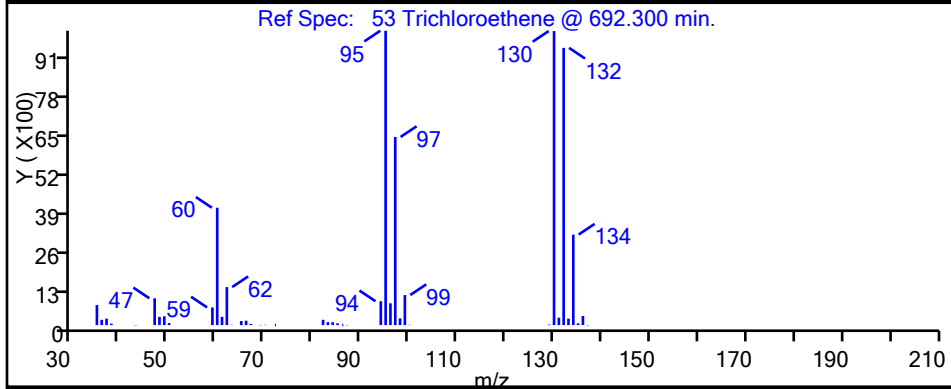
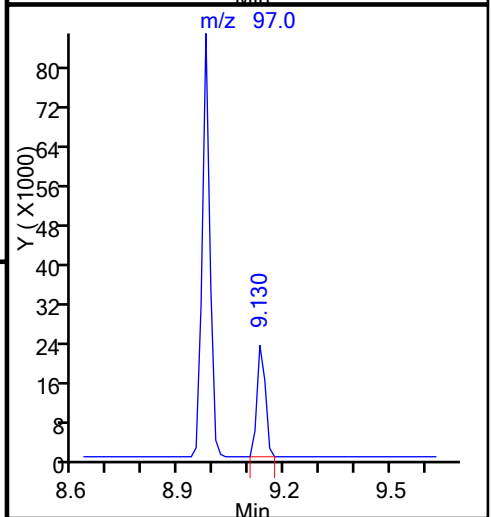
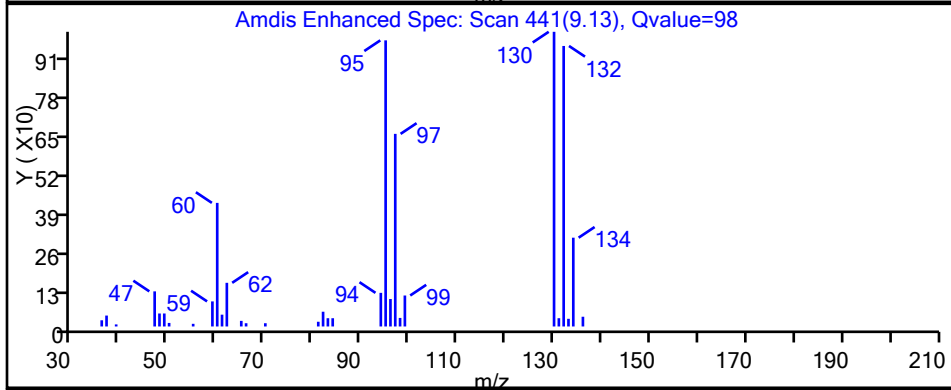
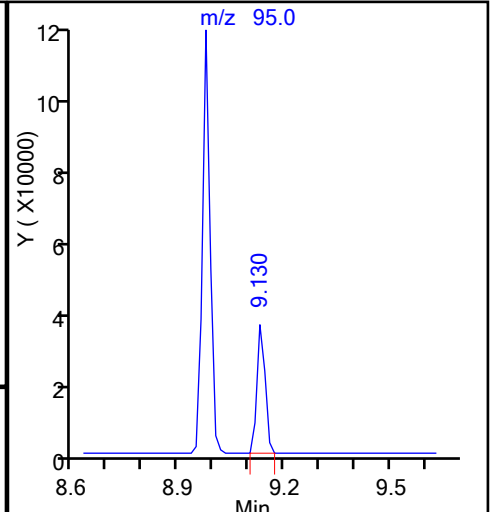
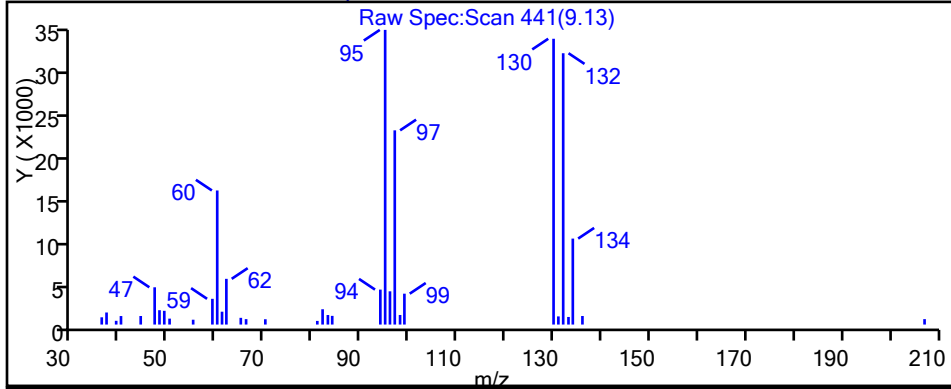
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6222.D

Injection Date: 21-Oct-2016 14:59:30

Instrument ID: VMSL

Lims ID: 280-89533-B-5

Lab Sample ID: 160-89533-5

Client ID: 6MW2402

Operator ID: ADB

ALS Bottle#: 13

Worklist Smp#: 15

Purge Vol: 5.000 mL

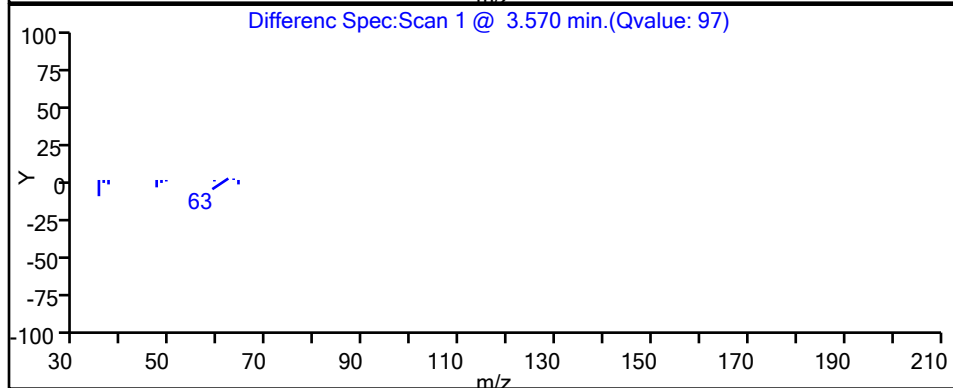
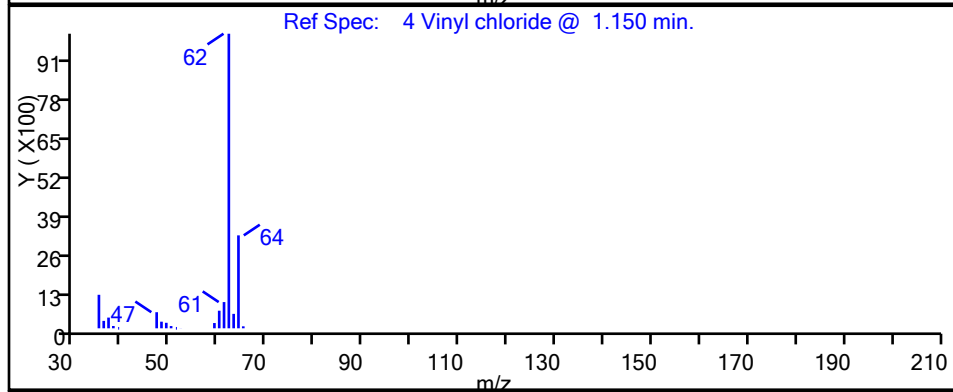
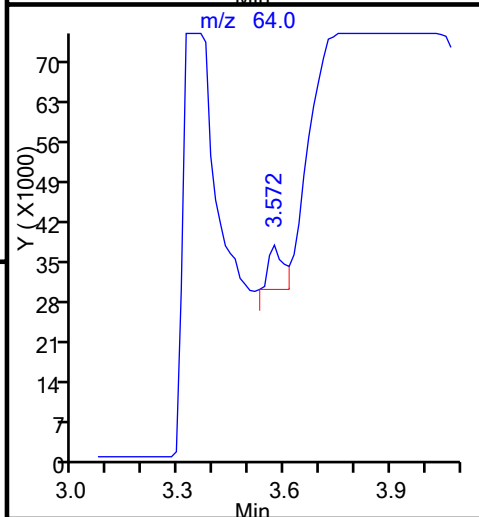
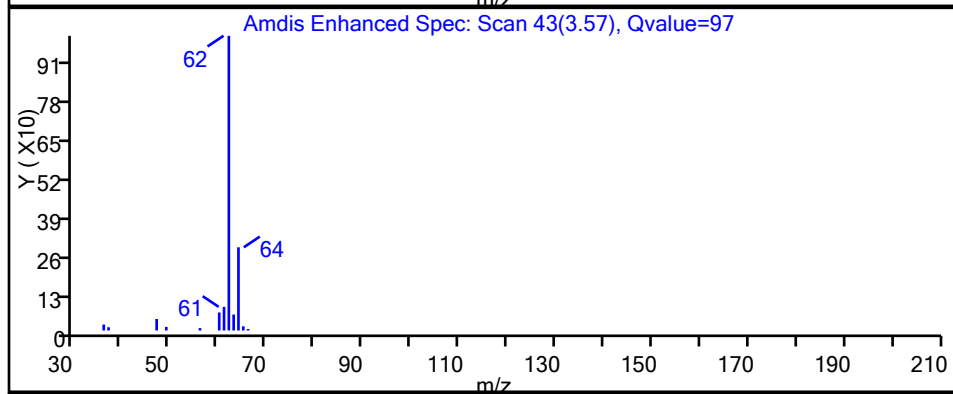
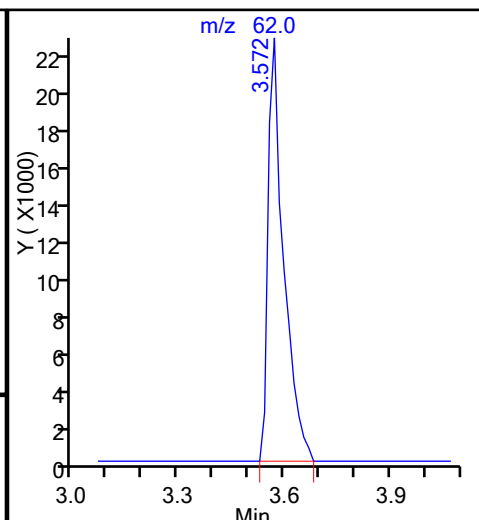
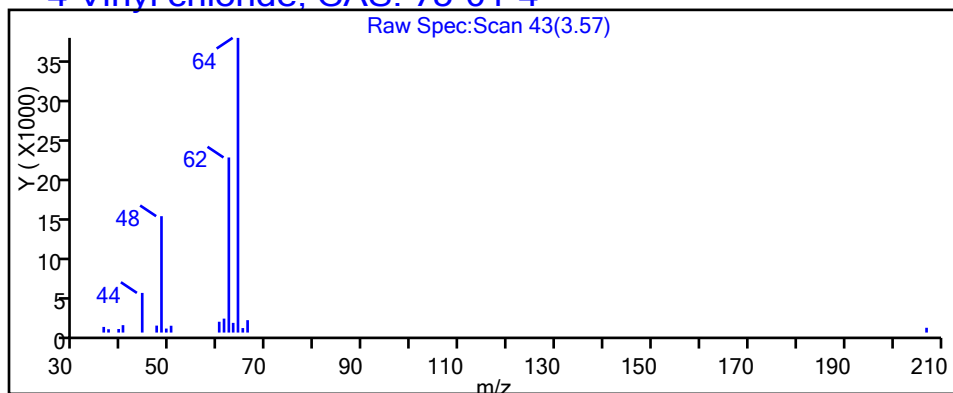
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: 6MW2502 Lab Sample ID: 280-89533-6

Matrix: Water Lab File ID: LSMP6223.D

Analysis Method: 8260C DOD Date Collected: 10/11/2016 14:39

Sample wt/vol: 5(mL) Date Analyzed: 10/21/2016 15:24

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	27		20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	36		20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	1.1	J	10	2.0	0.40
75-15-0	Carbon disulfide	1.5	J	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	0.70	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: 6MW2502 Lab Sample ID: 280-89533-6

Matrix: Water Lab File ID: LSMP6223.D

Analysis Method: 8260C DOD Date Collected: 10/11/2016 14:39

Sample wt/vol: 5 (mL) Date Analyzed: 10/21/2016 15:24

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.7	J	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		81-118
460-00-4	4-Bromofluorobenzene (Surr)	111		85-114
1868-53-7	Dibromofluoromethane (Surr)	107		80-119
2037-26-5	Toluene-d8 (Surr)	105		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6223.D
 Lims ID: 280-89533-B-6
 Client ID: 6MW2502
 Sample Type: Client
 Inject. Date: 21-Oct-2016 15:24:30 ALS Bottle#: 14 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0008795-016
 Misc. Info.: 280-89533-b-6
 Operator ID: ADB Instrument ID: VMSL
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 11:50:18 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: buettnera Date: 24-Oct-2016 11:35:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.055				ND	
3 Chloromethane	50		3.404				ND	
4 Vinyl chloride	62		3.558				ND	
5 Bromomethane	94	4.158	4.158	0.000	93	8227	1.11	
6 Chloroethane	64		4.382				ND	
7 Trichlorofluoromethane	101		4.619				ND	
9 1,1-Dichloroethene	96		5.443				ND	
10 Carbon disulfide	76	5.485	5.485	0.000	99	57340	1.54	
17 Methylene Chloride	84		6.239				ND	
18 Acetone	43	6.309	6.309	0.000	99	48032	35.7	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	99	18422	1.74	
22 Methyl tert-butyl ether	73		6.560				ND	
28 1,1-Dichloroethane	63		7.161				ND	
32 cis-1,2-Dichloroethene	96	7.748	7.748	0.000	79	7213	0.6971	
33 2,2-Dichloropropane	77		7.859				ND	
35 Chlorobromomethane	128		7.957				ND	
36 Chloroform	83		8.013				ND	
37 Carbon tetrachloride	117		8.167				ND	
\$ 41 Dibromofluoromethane (Surr	113	8.195	8.195	0.001	94	409126	53.7	
40 1,1,1-Trichloroethane	97		8.236				ND	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	99	52153	26.6	
42 1,1-Dichloropropene	75		8.348				ND	
44 Benzene	78		8.600				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	95	441146	53.2	
49 1,2-Dichloroethane	62		8.795				ND	
* 51 Fluorobenzene	96	8.977	8.977	0.000	99	1966320	50.0	
53 Trichloroethene	95		9.130				ND	
55 Dibromomethane	93		9.549				ND	
56 1,2-Dichloropropane	63		9.633				ND	
57 Dichlorobromomethane	83		9.661				ND	
61 cis-1,3-Dichloropropene	75		10.234				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	1797679	52.4	
63 Toluene	92	10.443	10.443	0.000	96	5081	0.1923	
66 4-Methyl-2-pentanone (MIBK)	43		10.750				ND	
67 trans-1,3-Dichloropropene	75		10.806				ND	
65 Tetrachloroethene	164		10.806				ND	
68 1,1,2-Trichloroethane	83		10.960				ND	
70 Chlorodibromomethane	129		11.141				ND	
71 1,3-Dichloropropane	76		11.225				ND	
72 Ethylene Dibromide	107		11.393				ND	
74 2-Hexanone	43		11.491				ND	
78 Ethylbenzene	91		11.826				ND	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	86	1368525	50.0	
77 Chlorobenzene	112		11.840				ND	
79 1,1,1,2-Tetrachloroethane	131		11.882				ND	
80 m-Xylene & p-Xylene	106		11.951				ND	
82 o-Xylene	106		12.356				ND	
83 Styrene	104		12.398				ND	
84 Bromoform	173		12.468				ND	
85 Isopropylbenzene	105		12.622				ND	
\$ 86 4-Bromofluorobenzene (Surr)	95	12.929	12.929	0.000	92	592194	55.5	
88 N-Propylbenzene	91		13.013				ND	
87 Bromobenzene	156		13.055				ND	
89 1,1,2,2-Tetrachloroethane	83		13.083				ND	
91 1,3,5-Trimethylbenzene	105		13.180				ND	
90 2-Chlorotoluene	91		13.194				ND	
92 1,2,3-Trichloropropane	110		13.236				ND	
95 4-Chlorotoluene	91		13.348				ND	
96 tert-Butylbenzene	119		13.502				ND	
97 1,2,4-Trimethylbenzene	105		13.558				ND	
98 sec-Butylbenzene	105		13.669				ND	
99 4-Isopropyltoluene	119		13.781				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.991	13.991	0.001	96	647338	50.0	
103 n-Butylbenzene	134		14.200				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.220				ND	
110 Naphthalene	128		16.239				ND	
111 1,2,3-Trichlorobenzene	180		16.435				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00066

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6223.D

Injection Date: 21-Oct-2016 15:24:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: 280-89533-B-6

Lab Sample ID: 160-89533-6

Worklist Smp#: 16

Client ID: 6MW2502

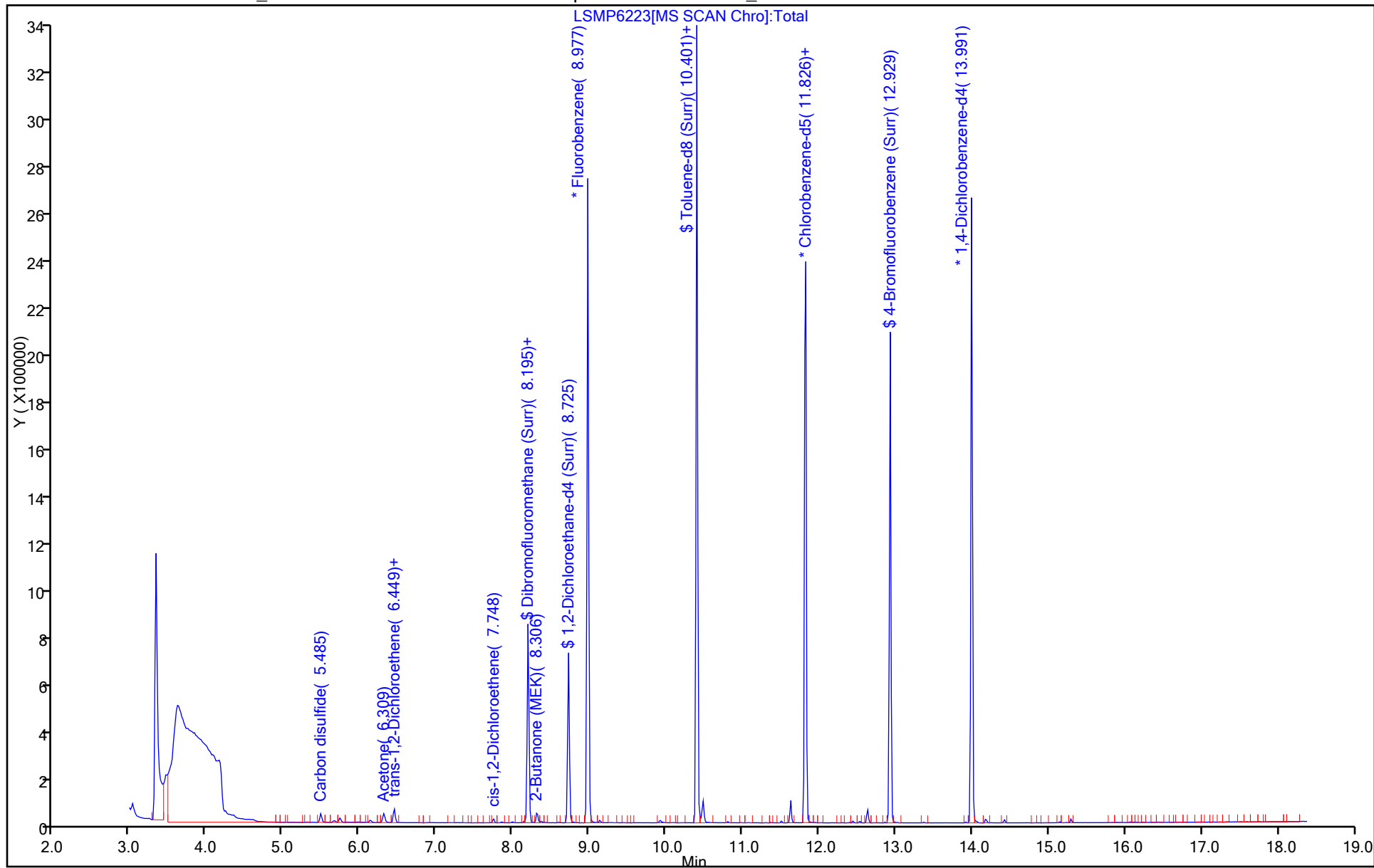
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6223.D
Lims ID: 280-89533-B-6
Client ID: 6MW2502
Sample Type: Client
Inject. Date: 21-Oct-2016 15:24:30 ALS Bottle#: 14 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0008795-016
Misc. Info.: 280-89533-b-6
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 24-Oct-2016 11:50:18 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: buettnera Date: 24-Oct-2016 11:35:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	53.7	107.31
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	53.2	106.39
\$ 62 Toluene-d8 (Surr)	50.0	52.4	104.70
\$ 86 4-Bromofluorobenzene (Surr)	50.0	55.5	110.90

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6223.D

Injection Date: 21-Oct-2016 15:24:30

Instrument ID: VMSL

Lims ID: 280-89533-B-6

Lab Sample ID: 160-89533-6

Client ID: 6MW2502

Operator ID: ADB

ALS Bottle#: 14

Worklist Smp#: 16

Purge Vol: 5.000 mL

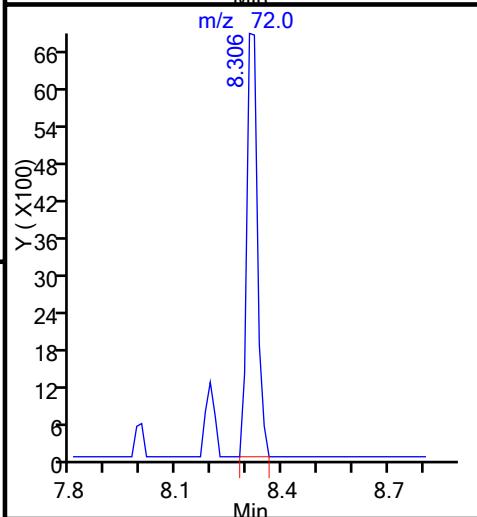
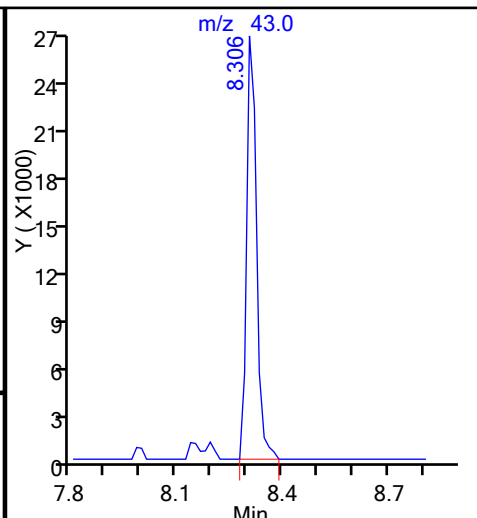
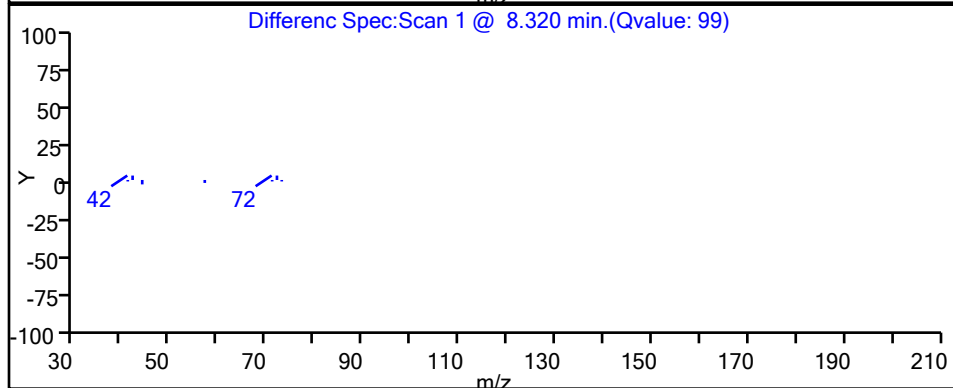
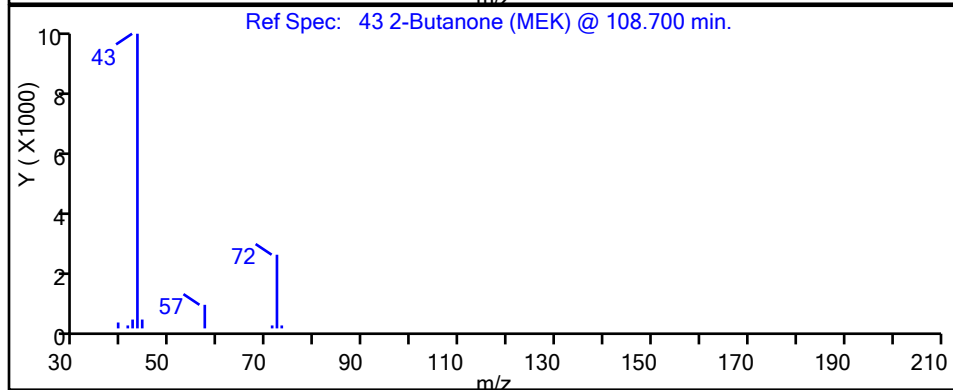
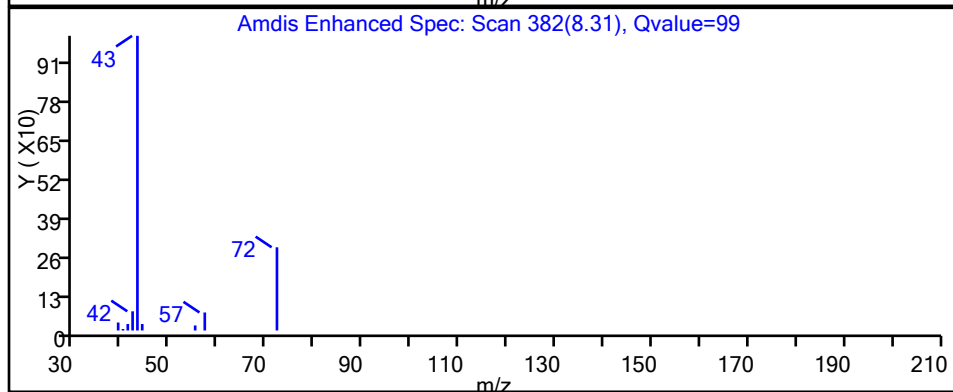
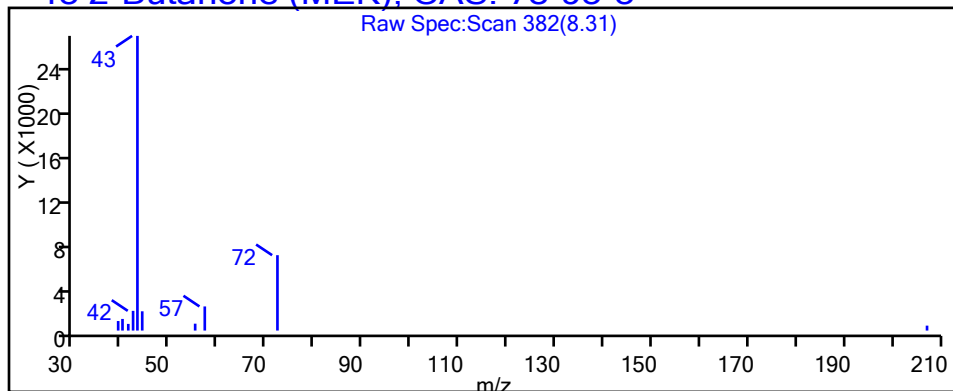
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

43 2-Butanone (MEK). CAS: 78-93-3

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6223.D

Injection Date: 21-Oct-2016 15:24:30

Instrument ID: VMSL

Lims ID: 280-89533-B-6

Lab Sample ID: 160-89533-6

Client ID: 6MW2502

Operator ID: ADB

ALS Bottle#: 14

Worklist Smp#: 16

Purge Vol: 5.000 mL

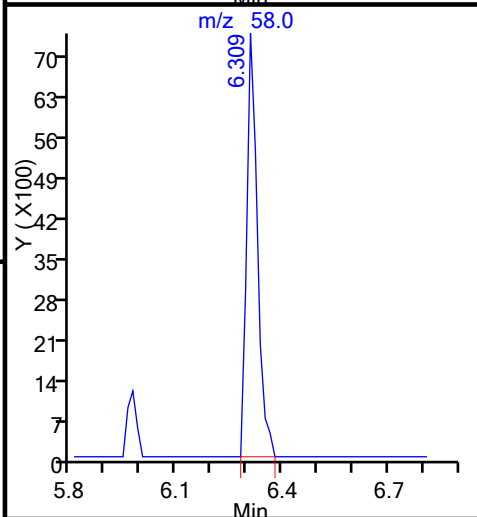
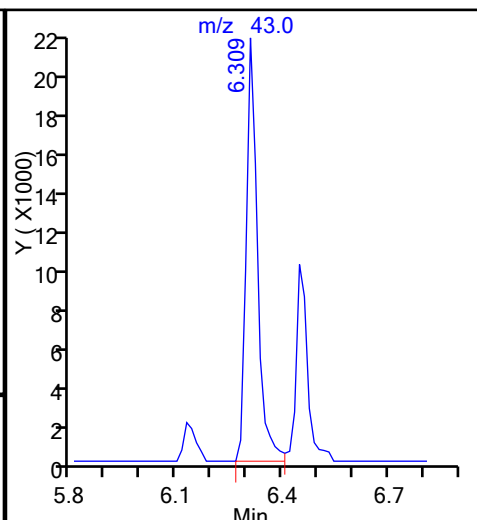
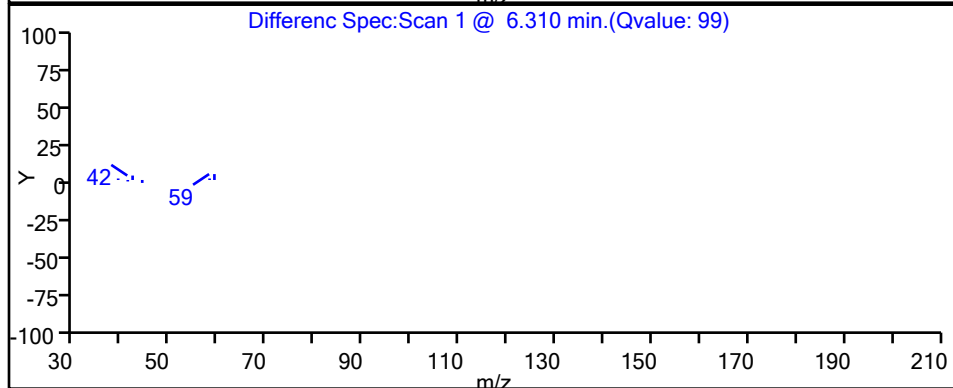
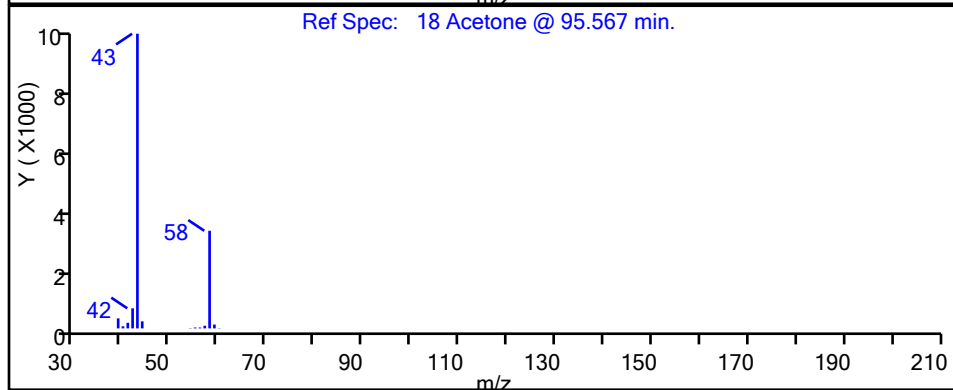
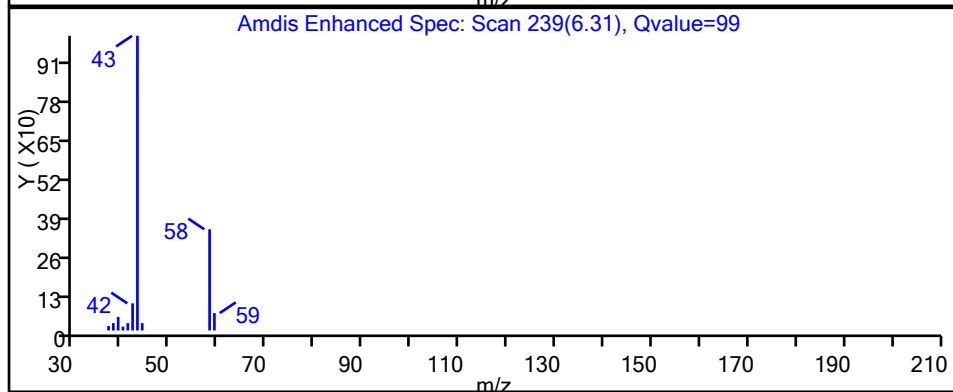
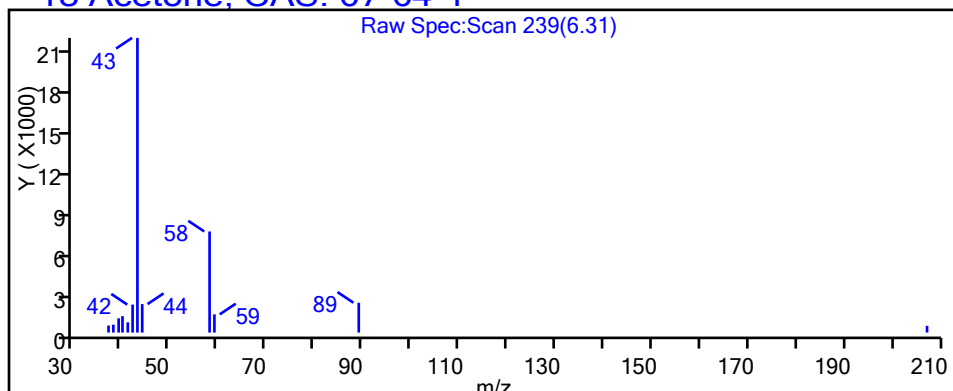
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

18 Acetone, CAS: 67-64-1

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6223.D

Injection Date: 21-Oct-2016 15:24:30

Instrument ID: VMSL

Lims ID: 280-89533-B-6

Lab Sample ID: 160-89533-6

Client ID: 6MW2502

Operator ID: ADB

ALS Bottle#: 14

Worklist Smp#: 16

Purge Vol: 5.000 mL

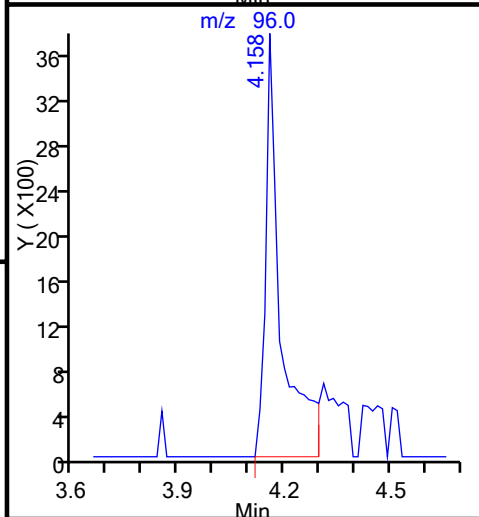
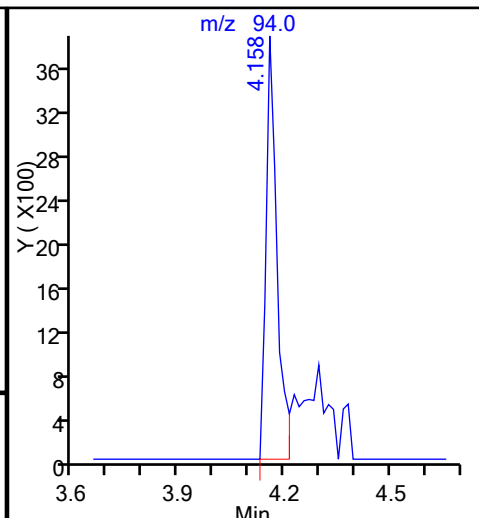
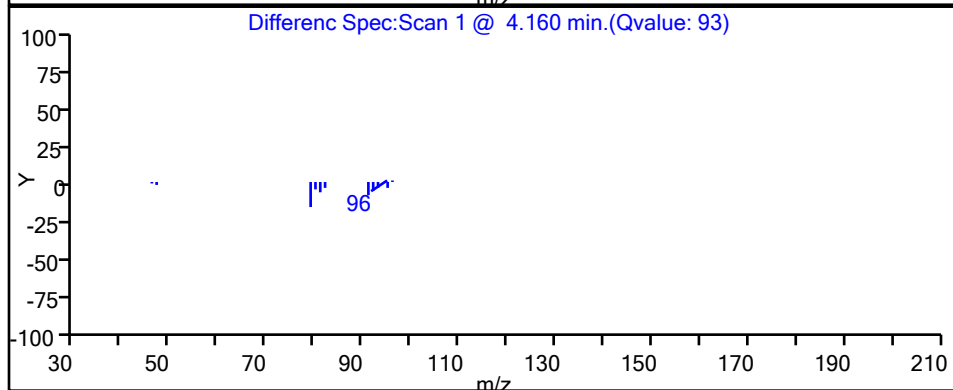
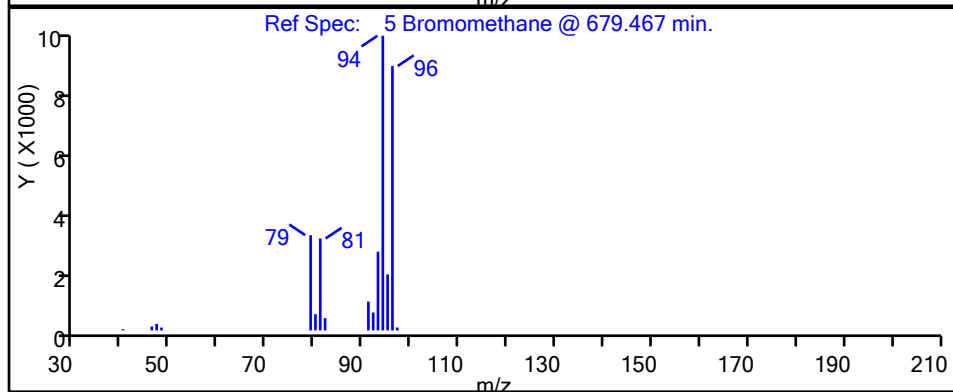
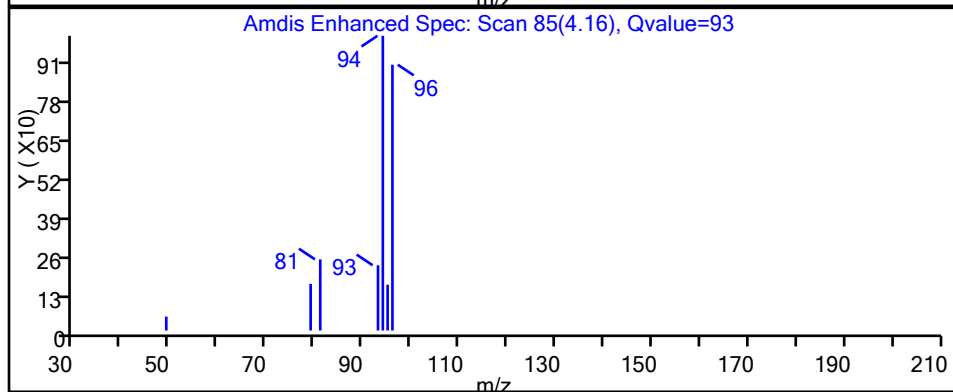
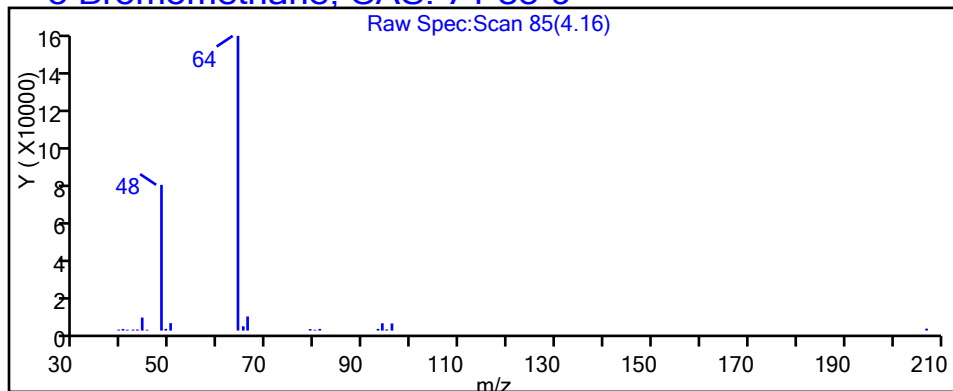
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector: MS SCAN

5 Bromomethane, CAS: 74-83-9

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6223.D

Injection Date: 21-Oct-2016 15:24:30

Instrument ID: VMSL

Lims ID: 280-89533-B-6

Lab Sample ID: 160-89533-6

Client ID: 6MW2502

Operator ID: ADB

ALS Bottle#: 14

Worklist Smp#: 16

Purge Vol: 5.000 mL

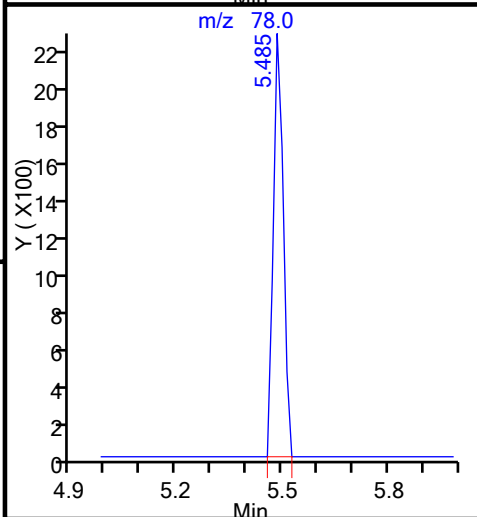
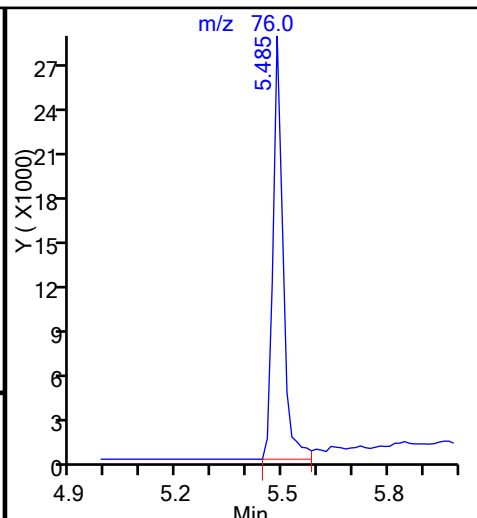
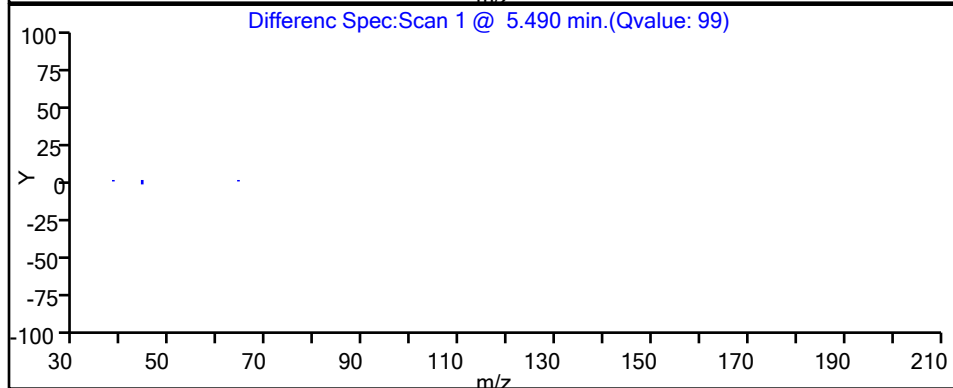
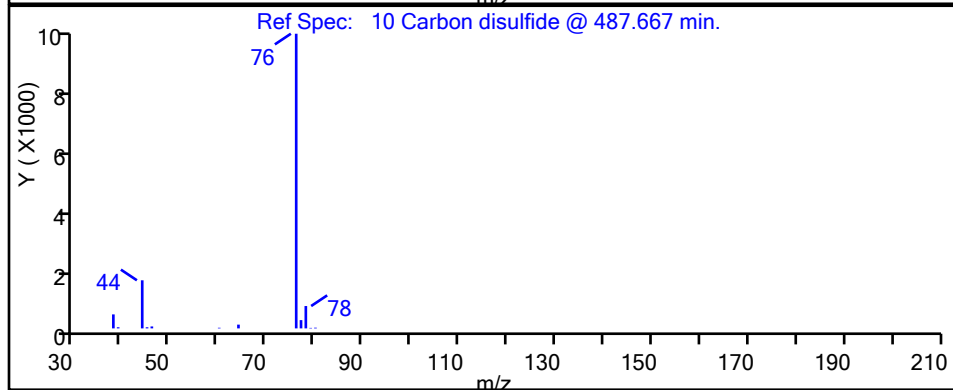
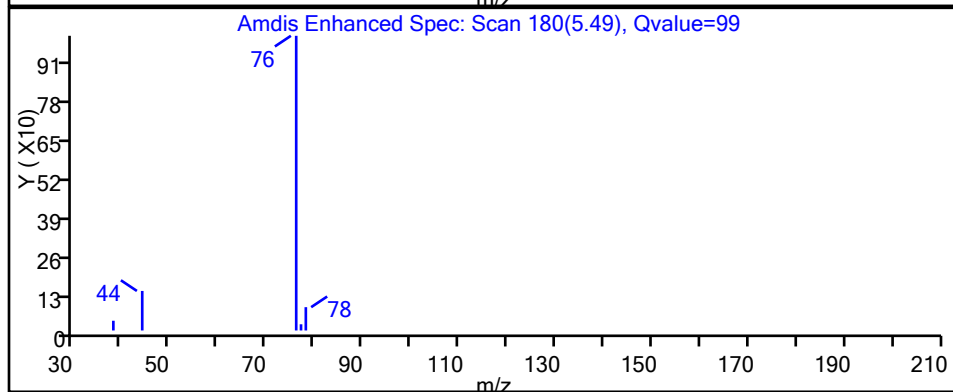
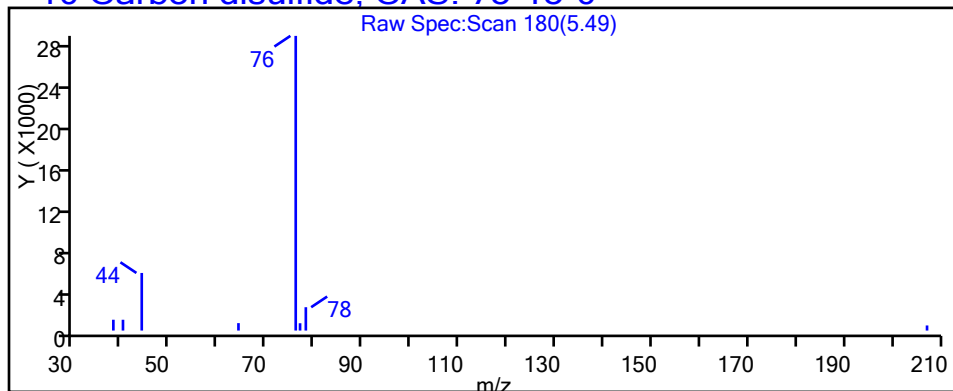
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

10 Carbon disulfide, CAS: 75-15-0

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6223.D

Injection Date: 21-Oct-2016 15:24:30

Instrument ID: VMSL

Lims ID: 280-89533-B-6

Lab Sample ID: 160-89533-6

Client ID: 6MW2502

Operator ID: ADB

ALS Bottle#: 14

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

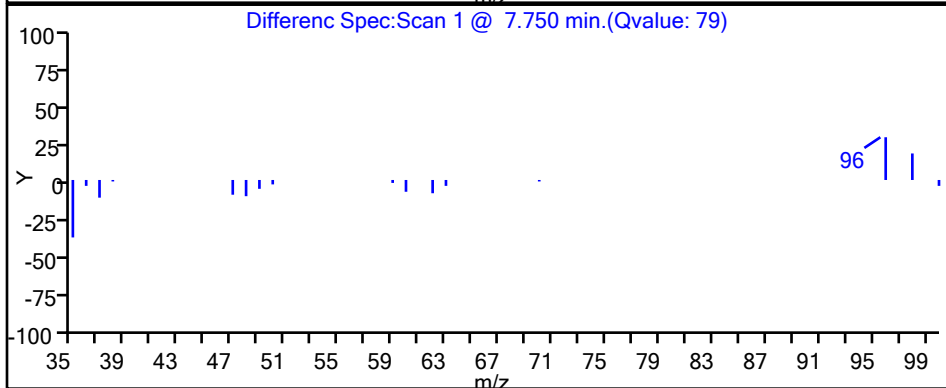
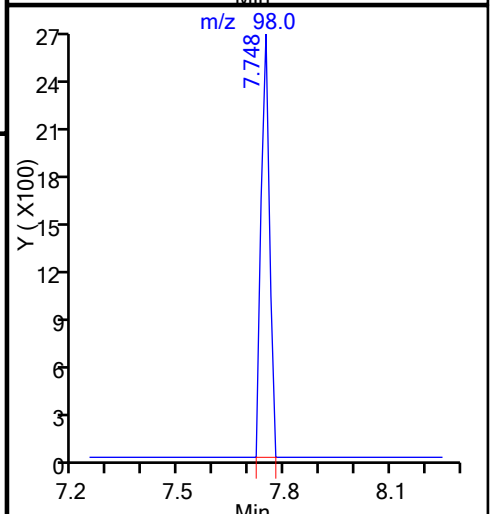
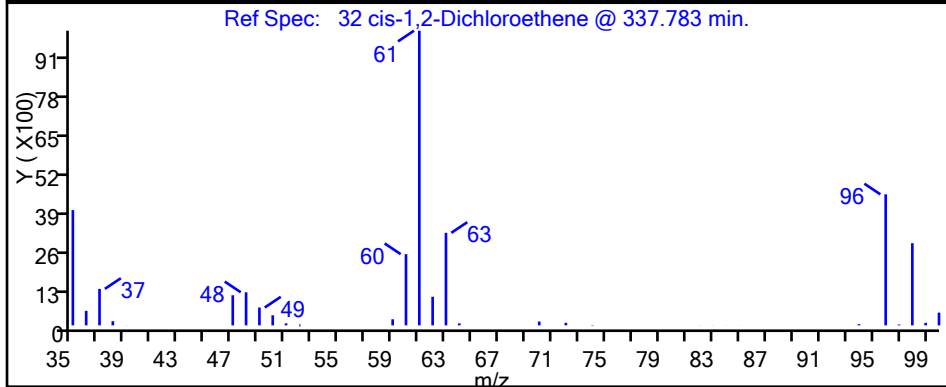
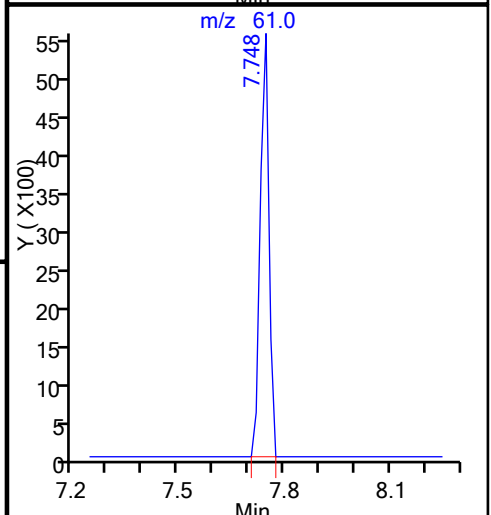
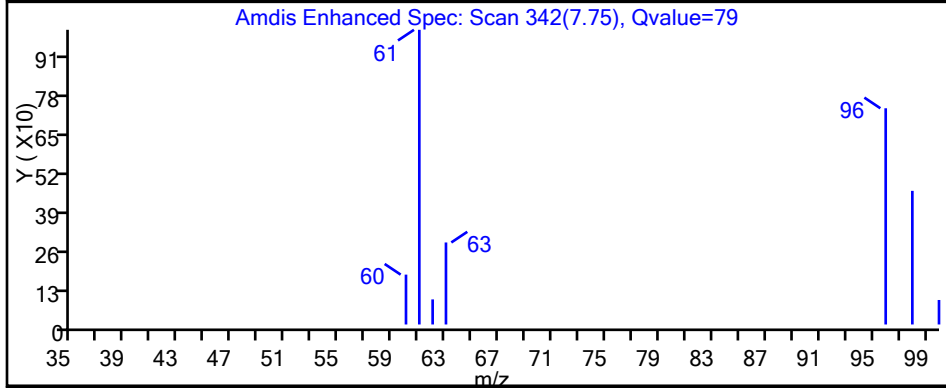
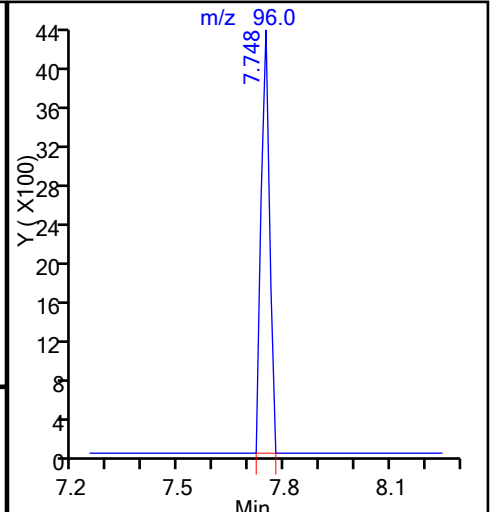
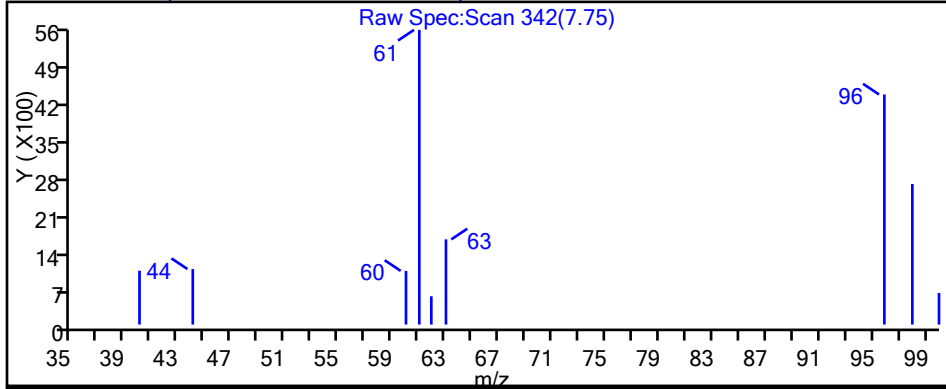
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6223.D

Injection Date: 21-Oct-2016 15:24:30

Instrument ID: VMSL

Lims ID: 280-89533-B-6

Lab Sample ID: 160-89533-6

Client ID: 6MW2502

Operator ID: ADB

ALS Bottle#: 14

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

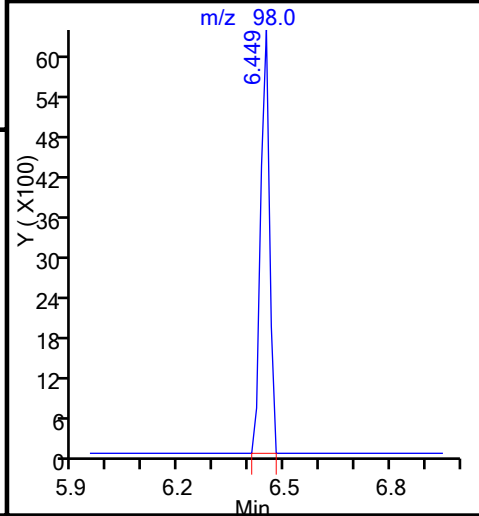
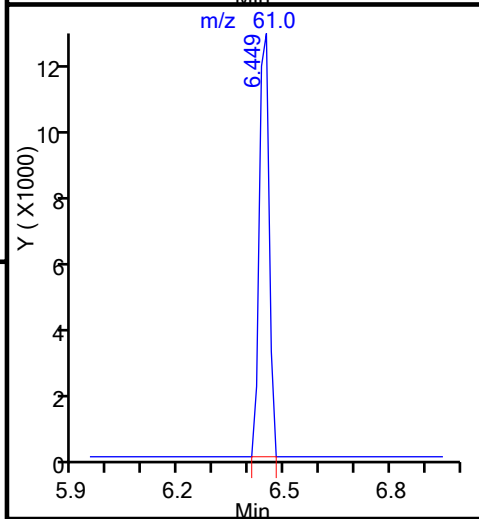
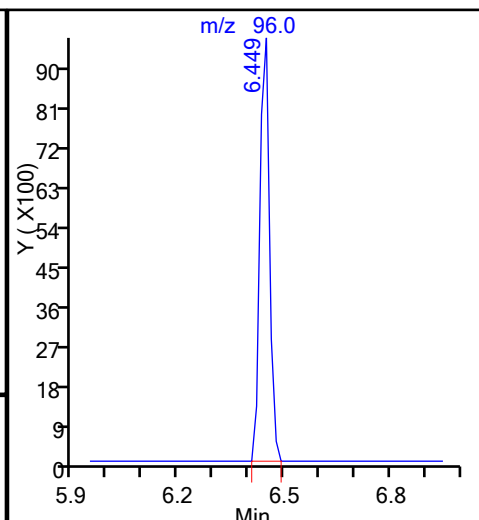
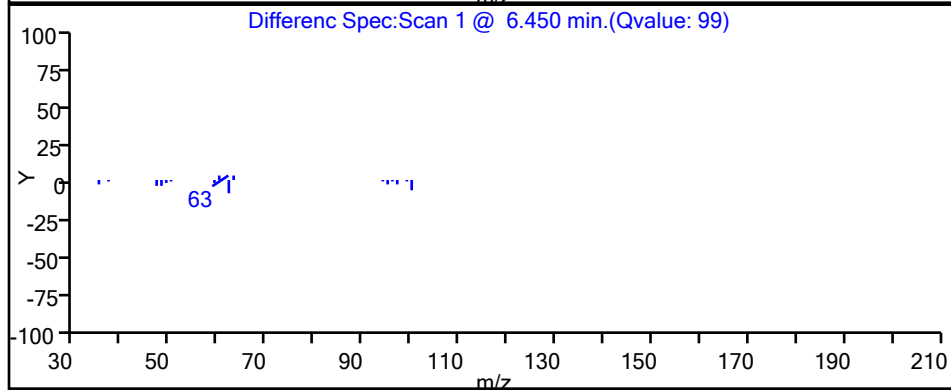
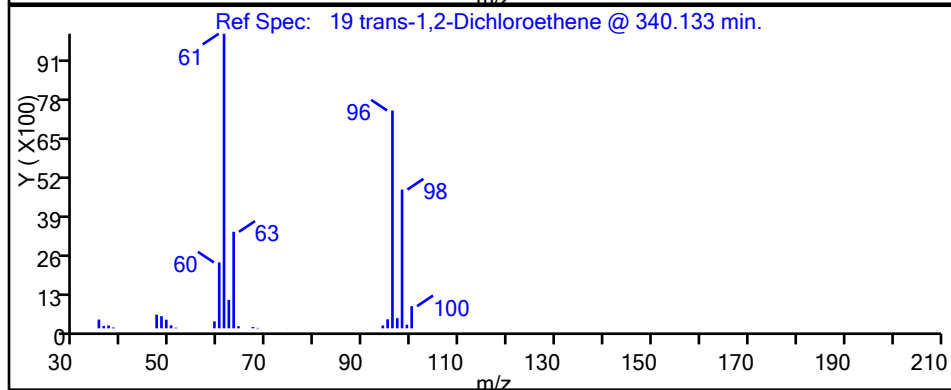
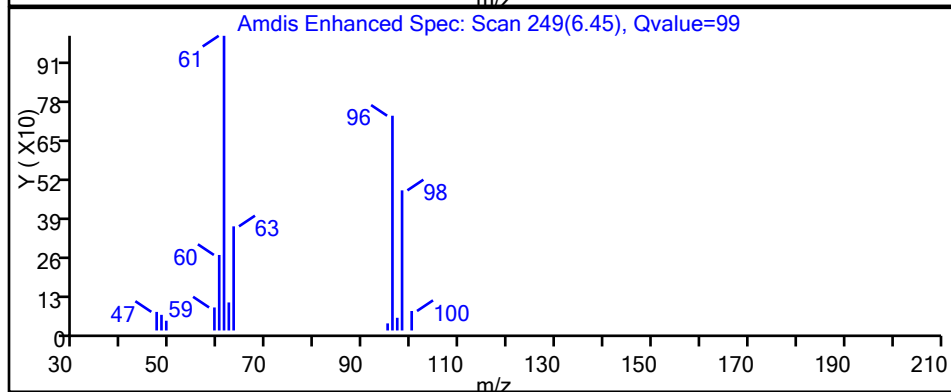
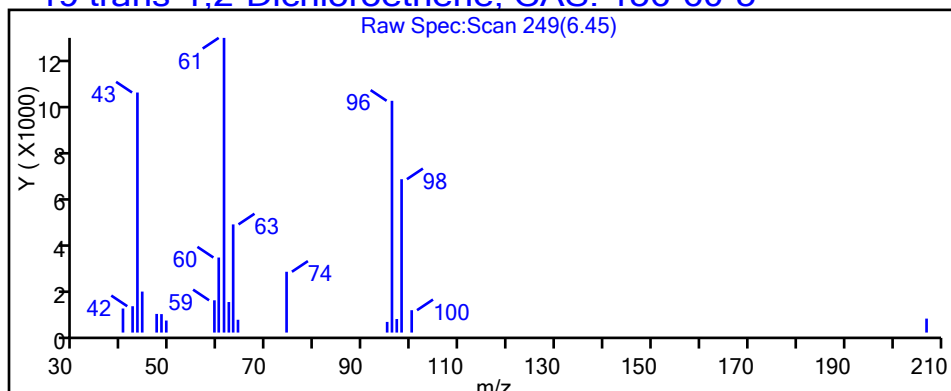
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: 6MW2602 Lab Sample ID: 280-89533-7

Matrix: Water Lab File ID: LSMP6224.D

Analysis Method: 8260C DOD Date Collected: 10/11/2016 13:39

Sample wt/vol: 5(mL) Date Analyzed: 10/21/2016 15:49

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	27		20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	58		20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	0.70	J	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	J	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	2.6	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: 6MW2602 Lab Sample ID: 280-89533-7

Matrix: Water Lab File ID: LSMP6224.D

Analysis Method: 8260C DOD Date Collected: 10/11/2016 13:39

Sample wt/vol: 5 (mL) Date Analyzed: 10/21/2016 15:49

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	0.29	J	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	0.32	J	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		81-118
460-00-4	4-Bromofluorobenzene (Surr)	110		85-114
1868-53-7	Dibromofluoromethane (Surr)	107		80-119
2037-26-5	Toluene-d8 (Surr)	103		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6224.D
 Lims ID: 280-89533-B-7
 Client ID: 6MW2602
 Sample Type: Client
 Inject. Date: 21-Oct-2016 15:49:30 ALS Bottle#: 15 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0008795-017
 Misc. Info.: 280-89533-b-7
 Operator ID: ADB Instrument ID: VMSL
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 11:50:18 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: buettnera Date: 24-Oct-2016 11:35:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.055				ND	
3 Chloromethane	50		3.404				ND	
4 Vinyl chloride	62		3.558				ND	
5 Bromomethane	94	4.158	4.158	0.000	52	5010	0.6975	
6 Chloroethane	64		4.382				ND	
7 Trichlorofluoromethane	101		4.619				ND	
9 1,1-Dichloroethene	96		5.443				ND	
10 Carbon disulfide	76	5.485	5.485	0.000	99	36029	1.00	
17 Methylene Chloride	84		6.239				ND	
18 Acetone	43	6.309	6.309	0.000	100	71192	58.4	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	96	2916	0.2852	
22 Methyl tert-butyl ether	73		6.560				ND	
28 1,1-Dichloroethane	63		7.161				ND	
32 cis-1,2-Dichloroethene	96	7.747	7.748	-0.001	78	26255	2.62	
33 2,2-Dichloropropane	77		7.859				ND	
35 Chlorobromomethane	128		7.957				ND	
36 Chloroform	83		8.013				ND	
37 Carbon tetrachloride	117		8.167				ND	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.195	0.000	93	393069	53.3	
40 1,1,1-Trichloroethane	97		8.236				ND	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	98	51810	27.3	
42 1,1-Dichloropropene	75		8.348				ND	
44 Benzene	78		8.600				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	94	424196	52.9	
49 1,2-Dichloroethane	62		8.795				ND	
* 51 Fluorobenzene	96	8.976	8.977	-0.001	99	1902528	50.0	
53 Trichloroethene	95	9.130	9.130	0.000	92	3509	0.3176	
55 Dibromomethane	93		9.549				ND	
56 1,2-Dichloropropane	63		9.633				ND	
57 Dichlorobromomethane	83		9.661				ND	
61 cis-1,3-Dichloropropene	75		10.234				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	1727421	51.4	
63 Toluene	92	10.443	10.443	0.000	26	5009	0.1935	
66 4-Methyl-2-pentanone (MIBK)	43		10.750				ND	
67 trans-1,3-Dichloropropene	75		10.806				ND	
65 Tetrachloroethene	164	10.806	10.806	0.000	94	2677	0.2747	
68 1,1,2-Trichloroethane	83		10.960				ND	
70 Chlorodibromomethane	129		11.141				ND	
71 1,3-Dichloropropane	76		11.225				ND	
72 Ethylene Dibromide	107		11.393				ND	
74 2-Hexanone	43		11.491				ND	
78 Ethylbenzene	91		11.826				ND	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	86	1340491	50.0	
77 Chlorobenzene	112		11.840				ND	
79 1,1,1,2-Tetrachloroethane	131		11.882				ND	
80 m-Xylene & p-Xylene	106		11.951				ND	
82 o-Xylene	106		12.356				ND	
83 Styrene	104		12.398				ND	
84 Bromoform	173		12.468				ND	
85 Isopropylbenzene	105		12.622				ND	
\$ 86 4-Bromofluorobenzene (Surr)	95	12.929	12.929	0.000	92	582671	54.8	
88 N-Propylbenzene	91		13.013				ND	
87 Bromobenzene	156		13.055				ND	
89 1,1,2,2-Tetrachloroethane	83		13.083				ND	
91 1,3,5-Trimethylbenzene	105		13.180				ND	
90 2-Chlorotoluene	91		13.194				ND	
92 1,2,3-Trichloropropane	110		13.236				ND	
95 4-Chlorotoluene	91		13.348				ND	
96 tert-Butylbenzene	119		13.502				ND	
97 1,2,4-Trimethylbenzene	105		13.558				ND	
98 sec-Butylbenzene	105		13.669				ND	
99 4-Isopropyltoluene	119		13.781				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.991	0.000	97	644502	50.0	
103 n-Butylbenzene	134		14.200				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.220				ND	
110 Naphthalene	128		16.239				ND	
111 1,2,3-Trichlorobenzene	180		16.435				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00066

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6224.D

Injection Date: 21-Oct-2016 15:49:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: 280-89533-B-7

Lab Sample ID: 160-89533-7

Worklist Smp#: 17

Client ID: 6MW2602

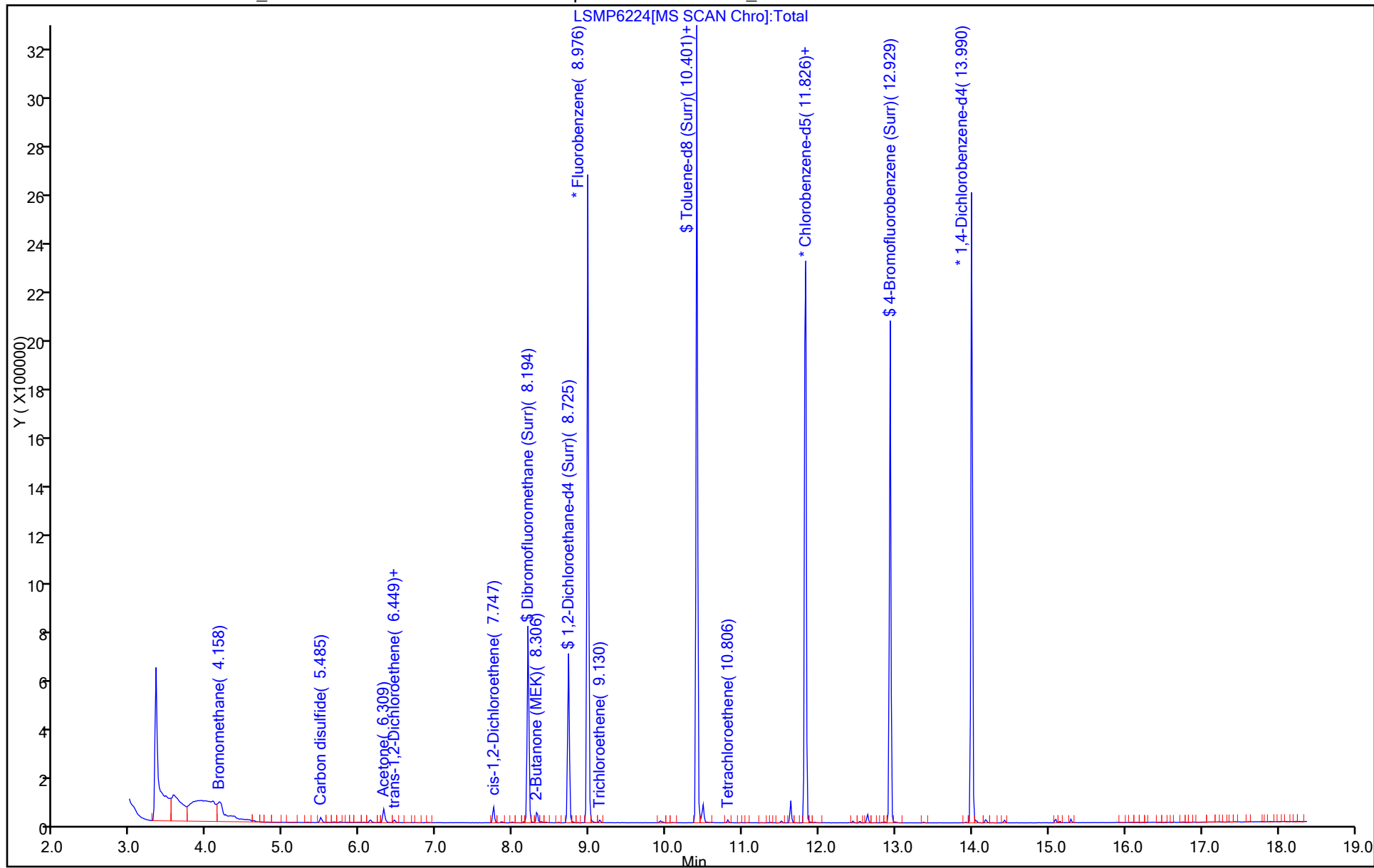
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 15

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6224.D
Lims ID: 280-89533-B-7
Client ID: 6MW2602
Sample Type: Client
Inject. Date: 21-Oct-2016 15:49:30 ALS Bottle#: 15 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0008795-017
Misc. Info.: 280-89533-b-7
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 24-Oct-2016 11:50:18 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: buettnera Date: 24-Oct-2016 11:35:53

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	53.3	106.55
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	52.9	105.74
\$ 62 Toluene-d8 (Surr)	50.0	51.4	102.71
\$ 86 4-Bromofluorobenzene (Surr)	50.0	54.8	109.60

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6224.D

Injection Date: 21-Oct-2016 15:49:30

Instrument ID: VMSL

Lims ID: 280-89533-B-7

Lab Sample ID: 160-89533-7

Client ID: 6MW2602

Operator ID: ADB

ALS Bottle#: 15

Worklist Smp#: 17

Purge Vol: 5.000 mL

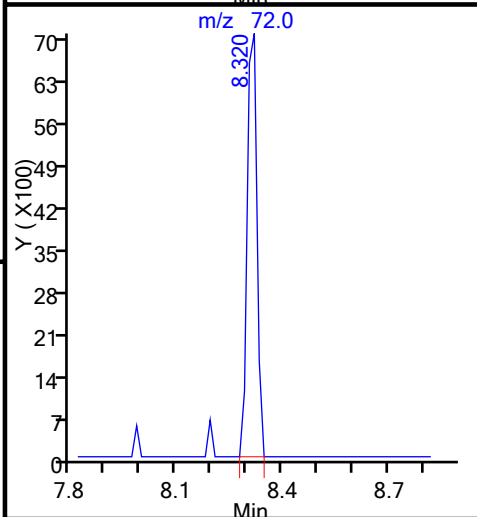
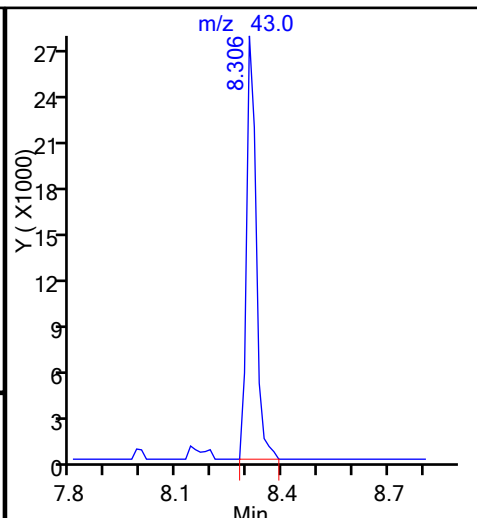
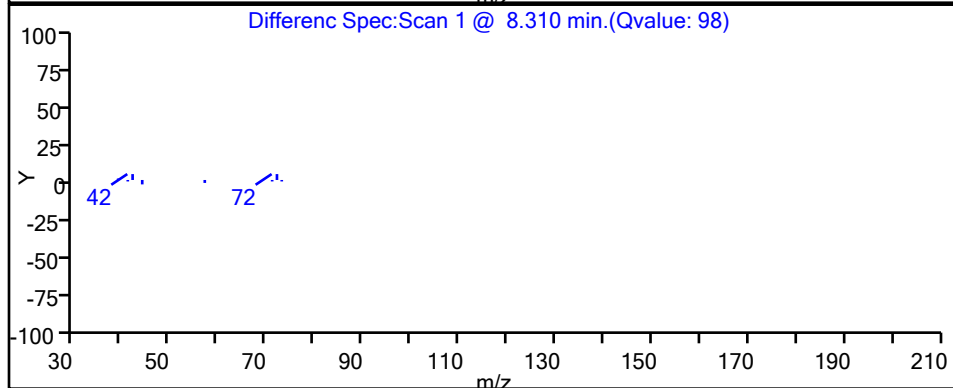
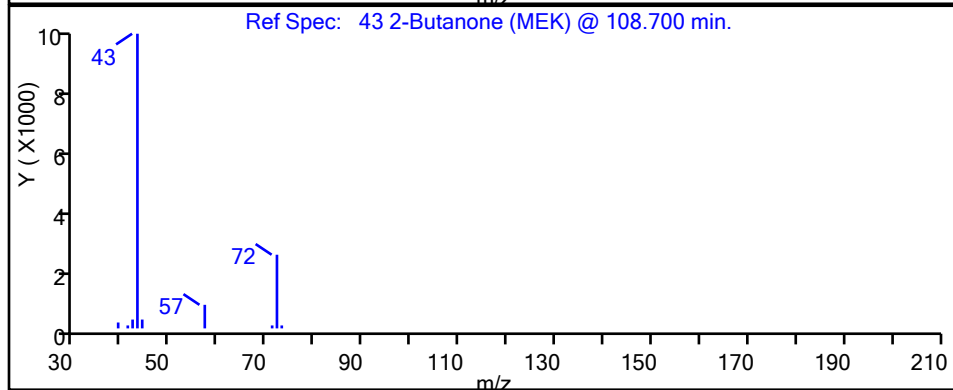
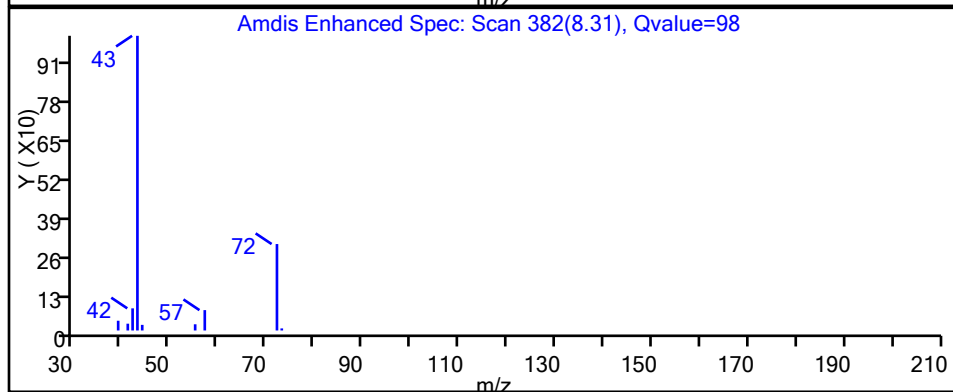
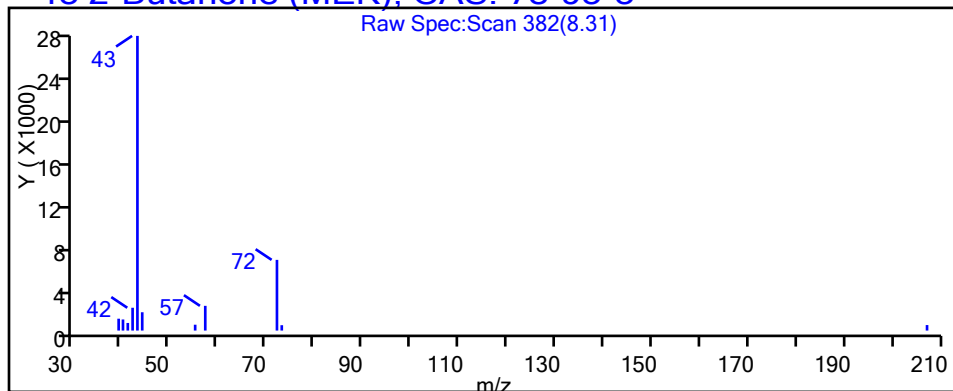
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

43 2-Butanone (MEK). CAS: 78-93-3

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6224.D

Injection Date: 21-Oct-2016 15:49:30

Instrument ID: VMSL

Lims ID: 280-89533-B-7

Lab Sample ID: 160-89533-7

Client ID: 6MW2602

Operator ID: ADB

ALS Bottle#: 15

Worklist Smp#: 17

Purge Vol: 5.000 mL

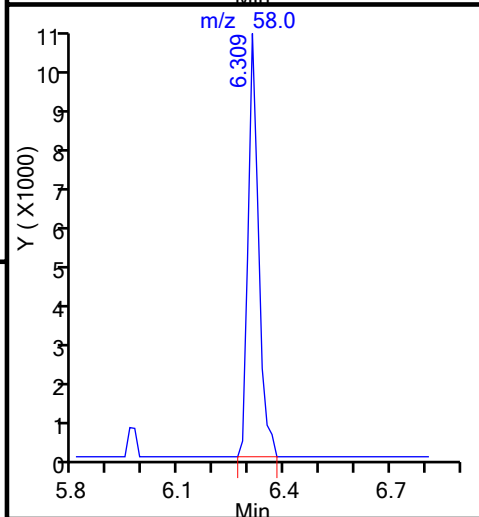
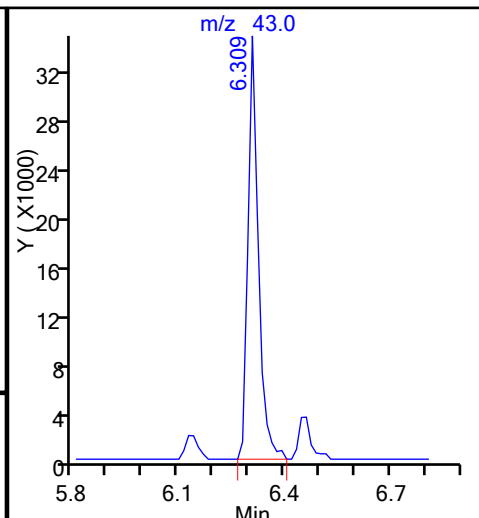
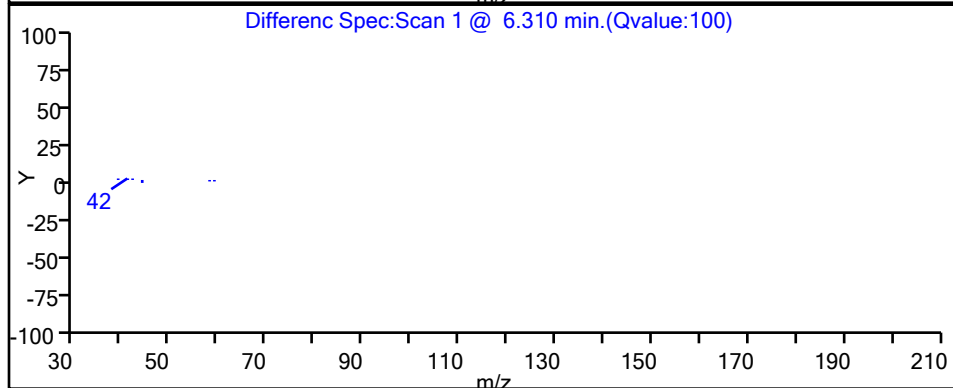
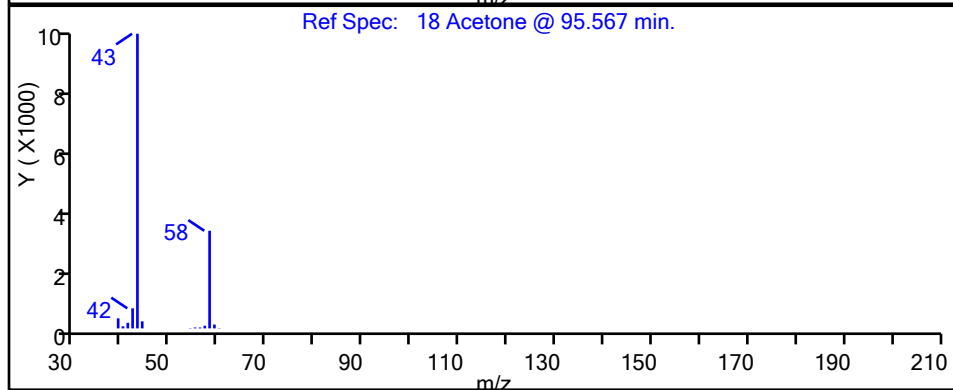
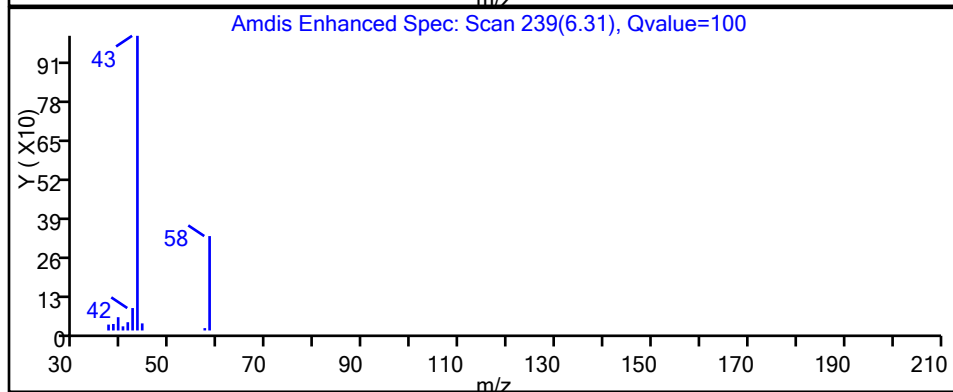
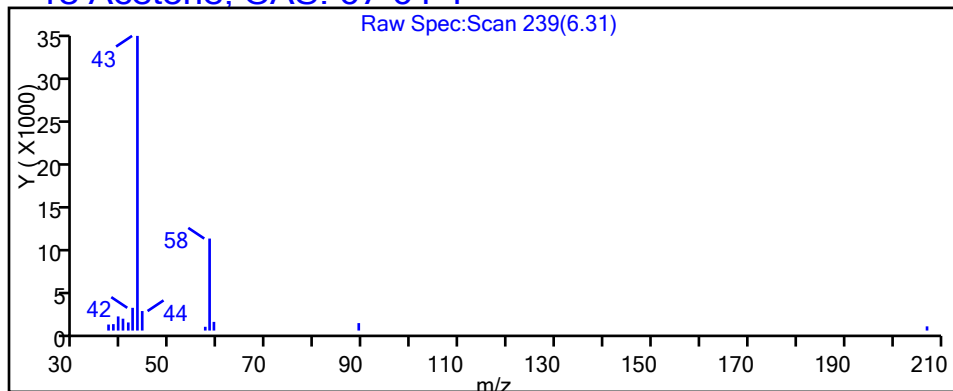
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

18 Acetone, CAS: 67-64-1

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6224.D

Injection Date: 21-Oct-2016 15:49:30

Instrument ID: VMSL

Lims ID: 280-89533-B-7

Lab Sample ID: 160-89533-7

Client ID: 6MW2602

Operator ID: ADB

ALS Bottle#: 15

Worklist Smp#: 17

Purge Vol: 5.000 mL

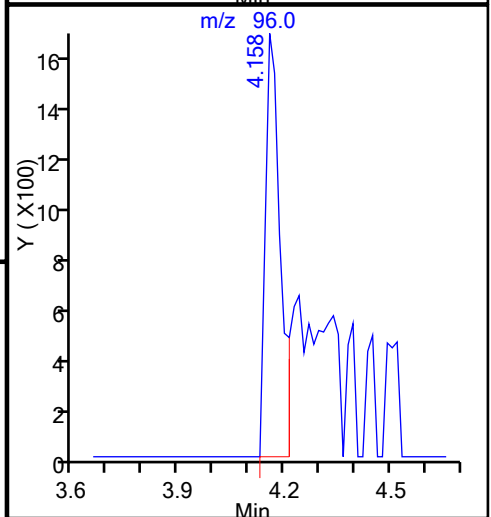
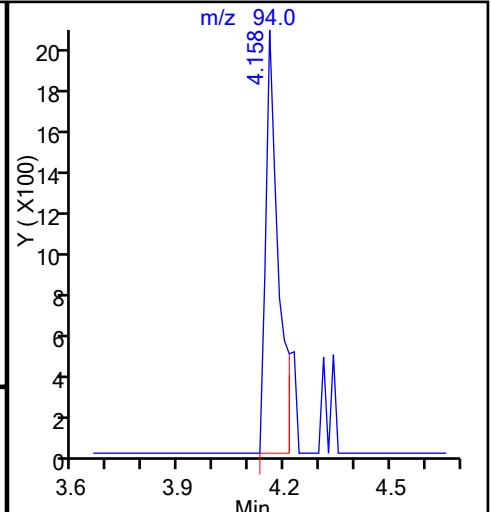
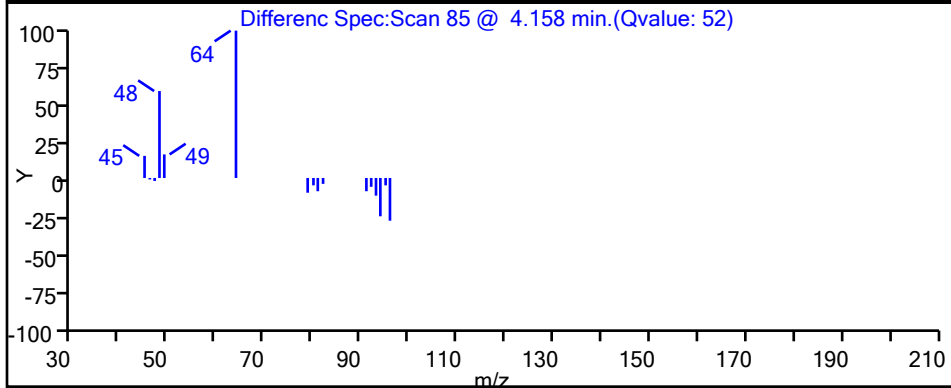
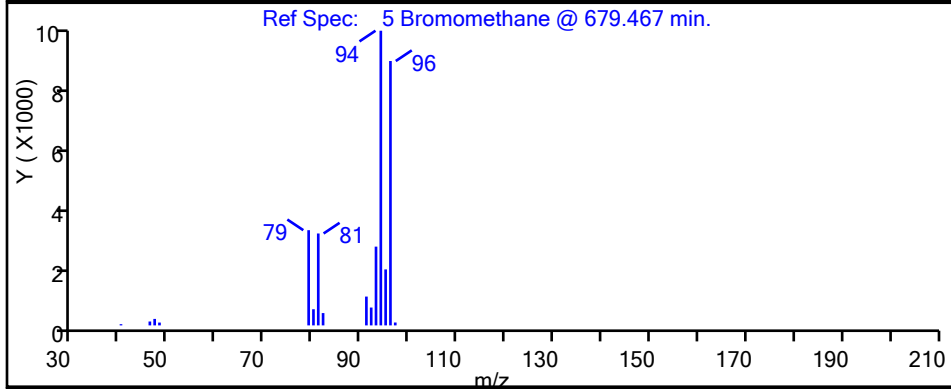
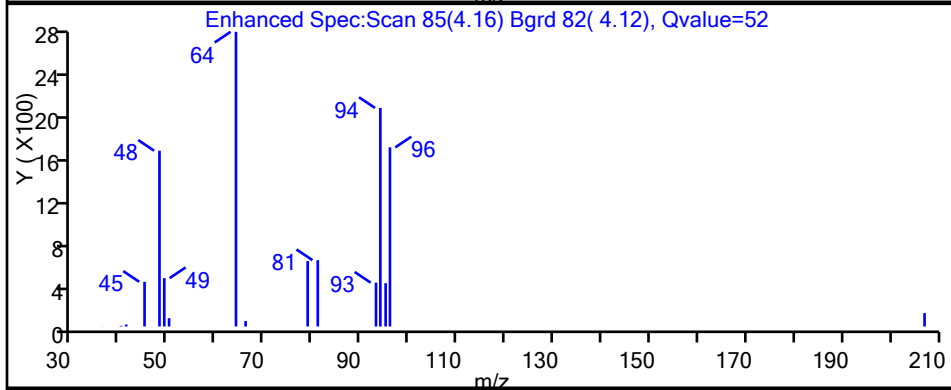
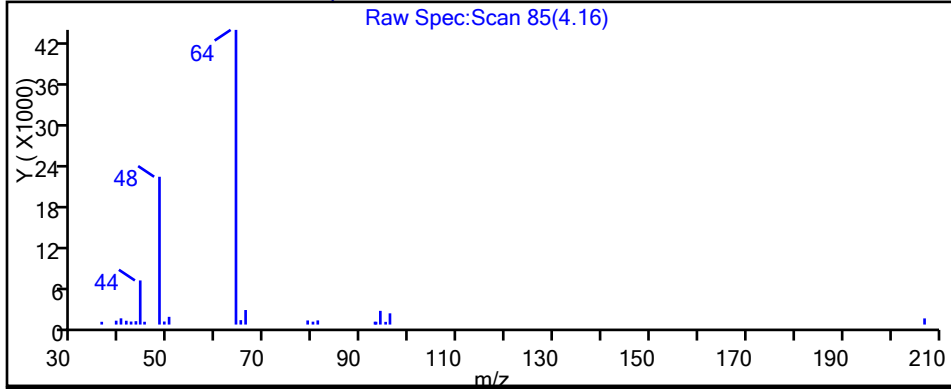
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

5 Bromomethane, CAS: 74-83-9

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6224.D

Injection Date: 21-Oct-2016 15:49:30

Instrument ID: VMSL

Lims ID: 280-89533-B-7

Lab Sample ID: 160-89533-7

Client ID: 6MW2602

Operator ID: ADB

ALS Bottle#: 15 Worklist Smp#: 17

Purge Vol: 5.000 mL

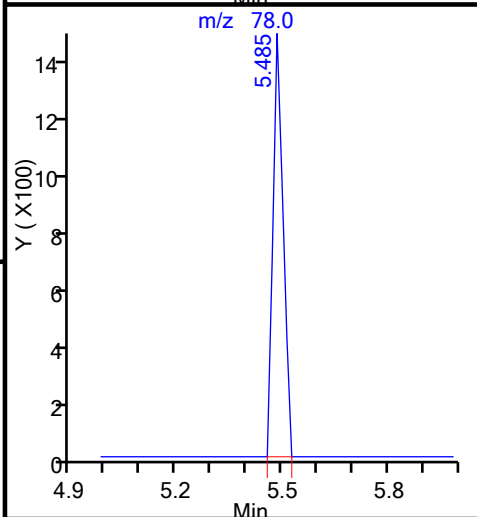
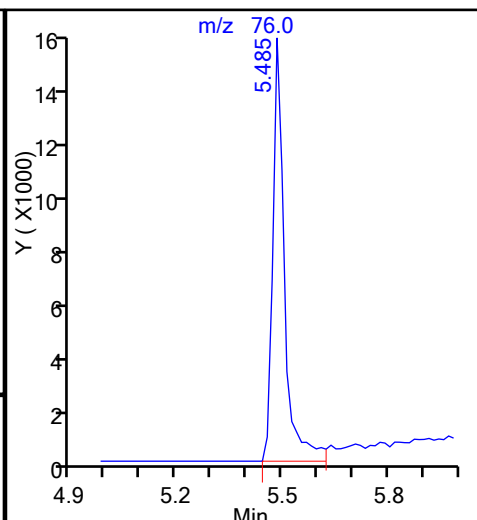
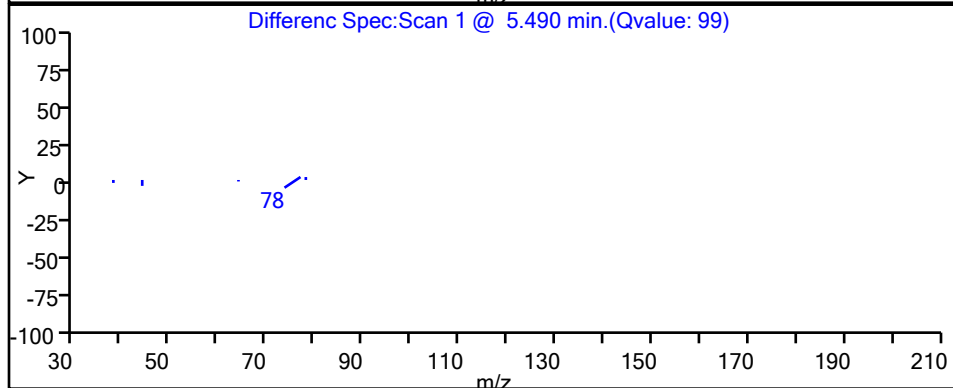
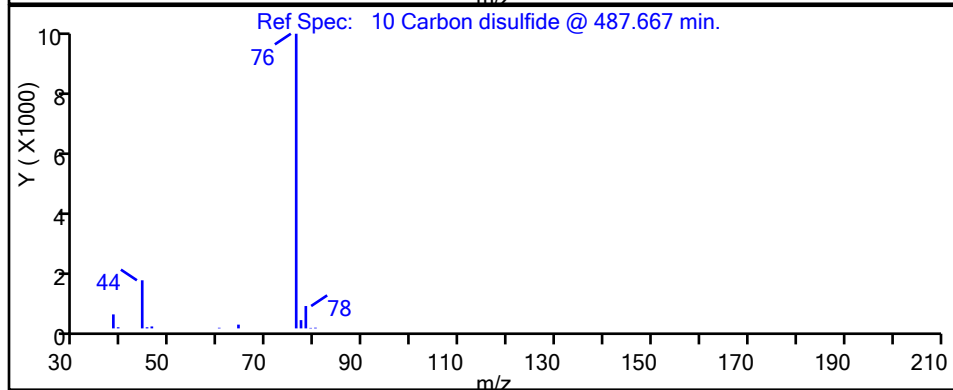
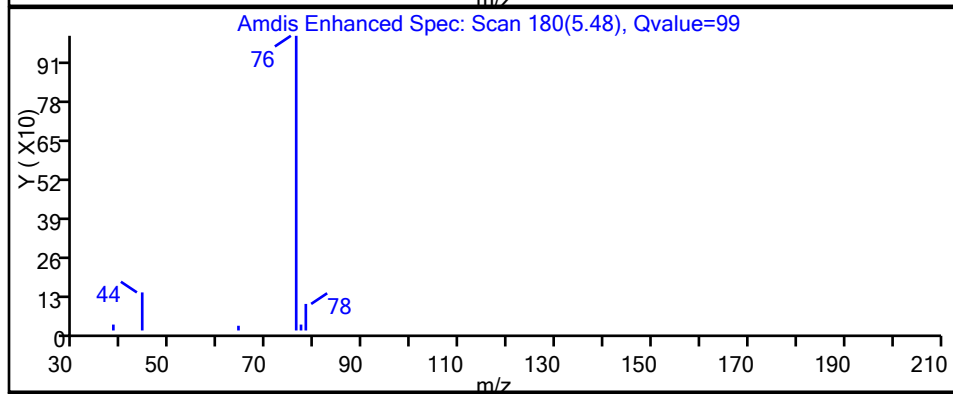
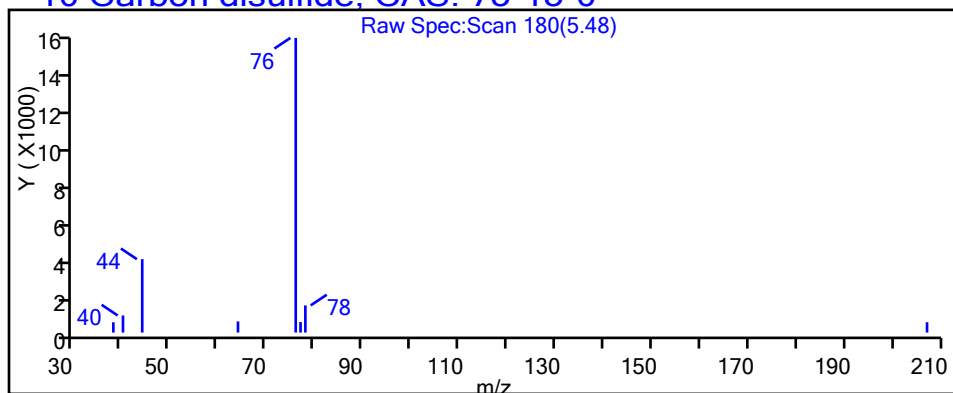
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

10 Carbon disulfide, CAS: 75-15-0

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6224.D

Injection Date: 21-Oct-2016 15:49:30

Instrument ID: VMSL

Lims ID: 280-89533-B-7

Lab Sample ID: 160-89533-7

Client ID: 6MW2602

Operator ID: ADB

ALS Bottle#: 15

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

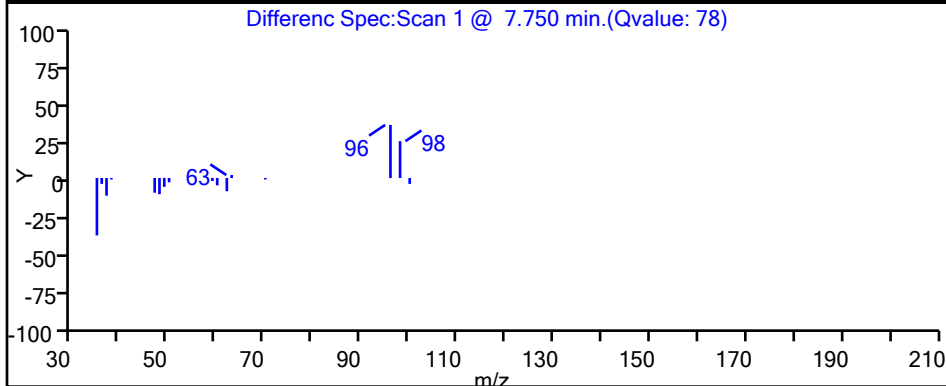
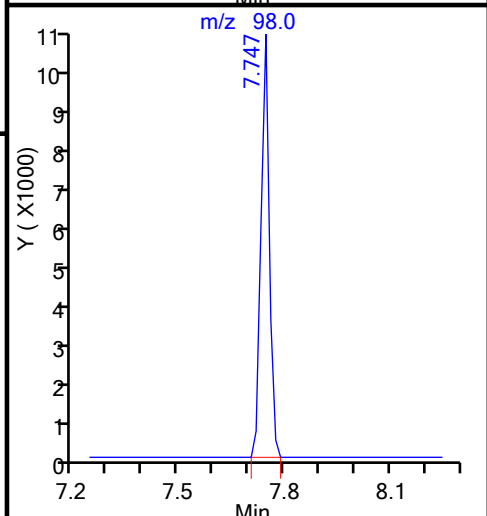
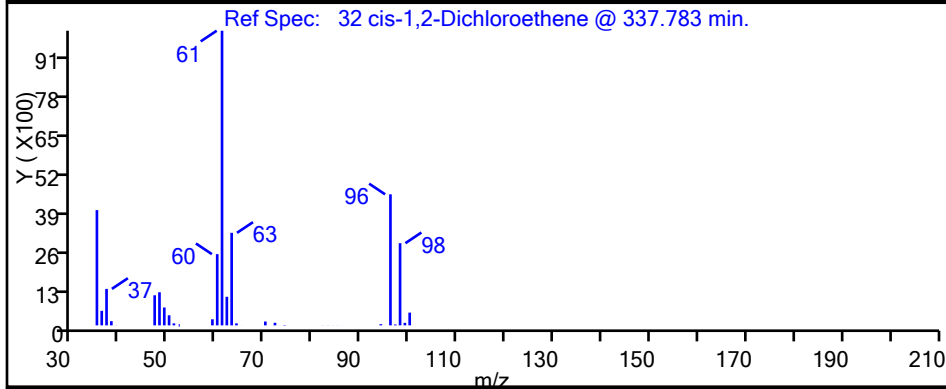
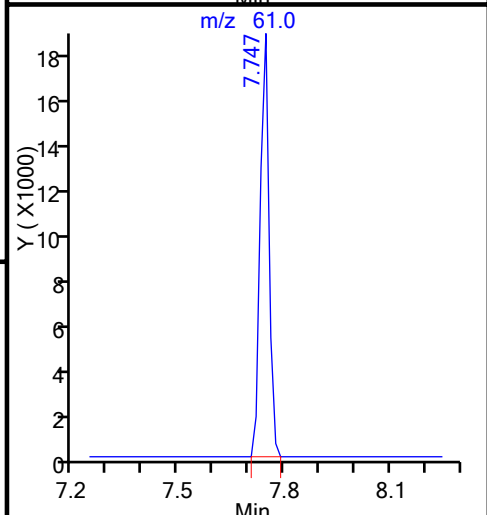
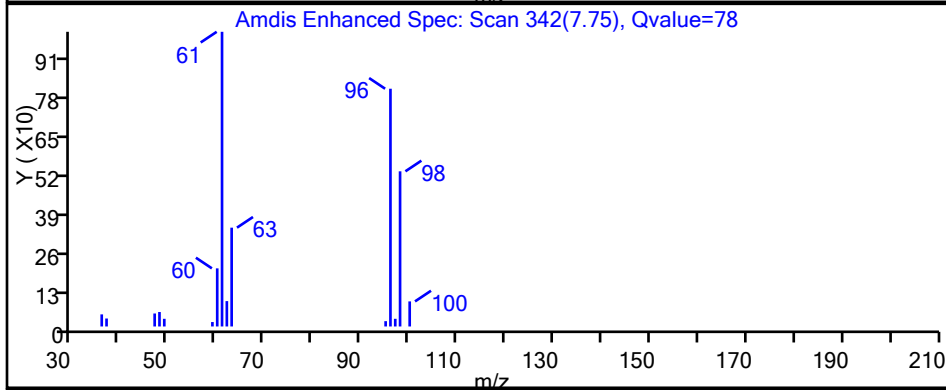
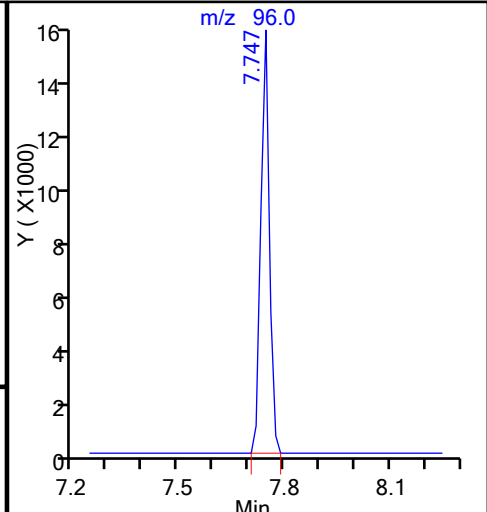
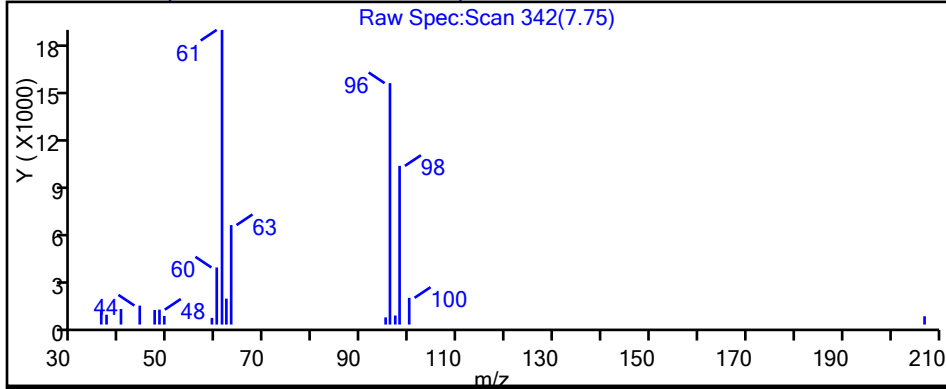
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6224.D

Injection Date: 21-Oct-2016 15:49:30

Instrument ID: VMSL

Lims ID: 280-89533-B-7

Lab Sample ID: 160-89533-7

Client ID: 6MW2602

Operator ID: ADB

ALS Bottle#: 15

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

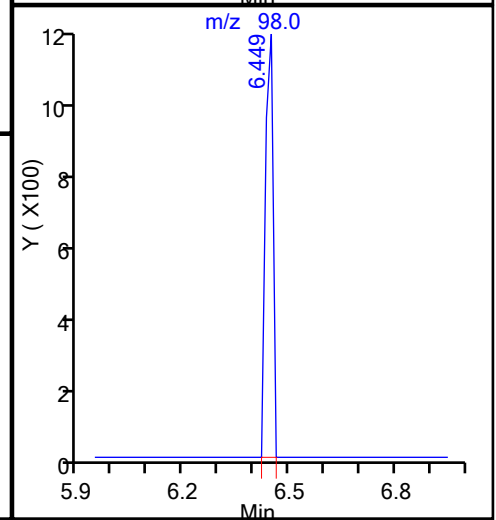
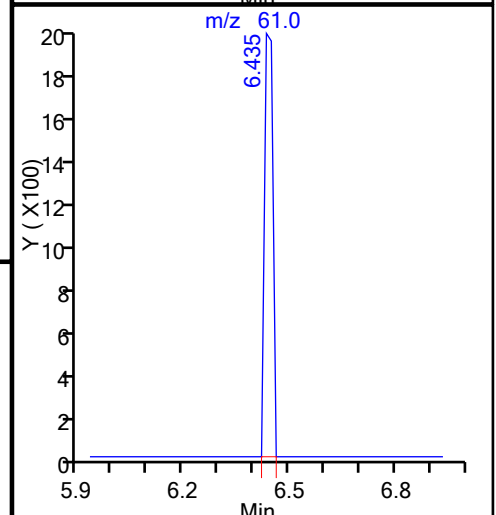
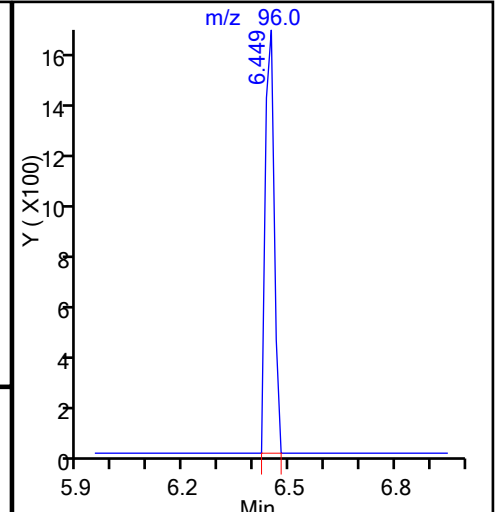
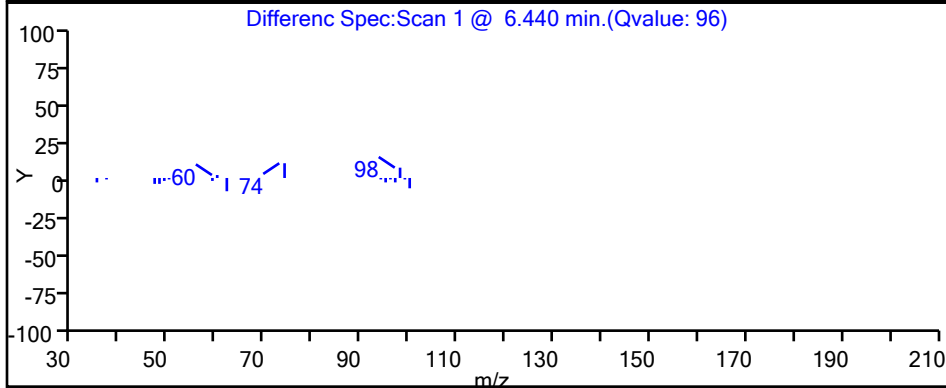
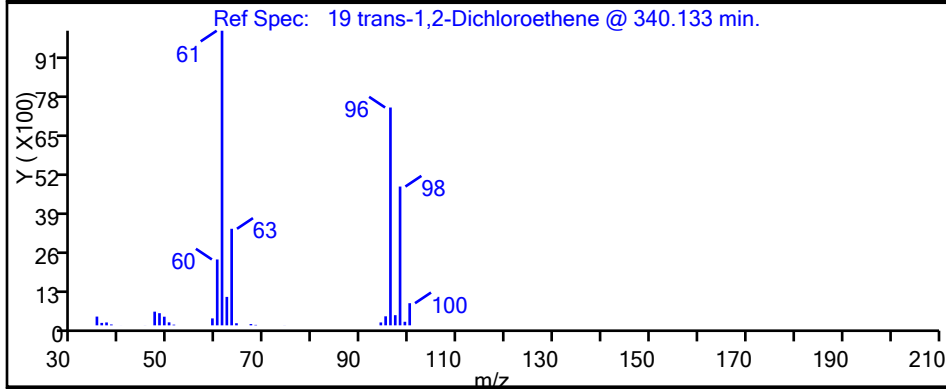
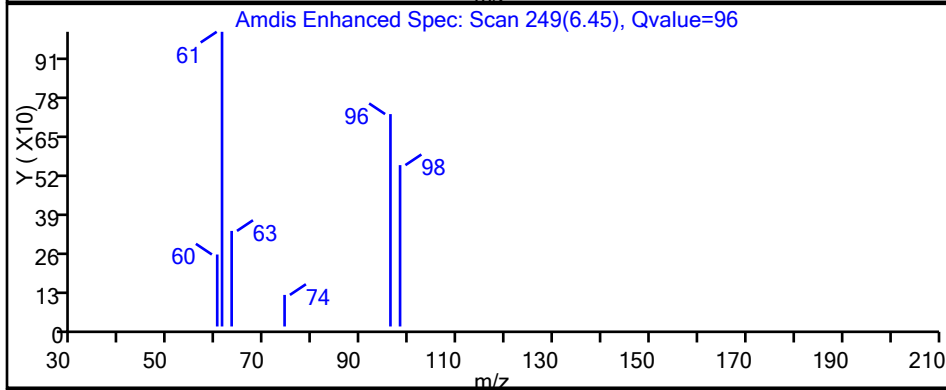
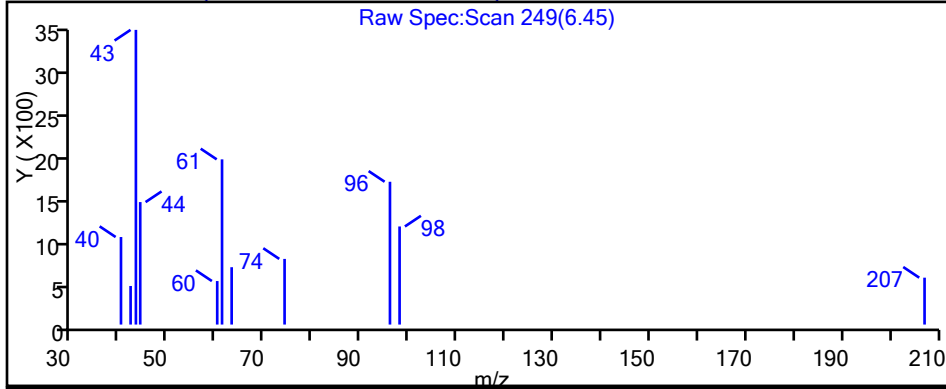
Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6224.D

Injection Date: 21-Oct-2016 15:49:30

Instrument ID: VMSL

Lims ID: 280-89533-B-7

Lab Sample ID: 160-89533-7

Client ID: 6MW2602

Operator ID: ADB

ALS Bottle#: 15

Worklist Smp#: 17

Purge Vol: 5.000 mL

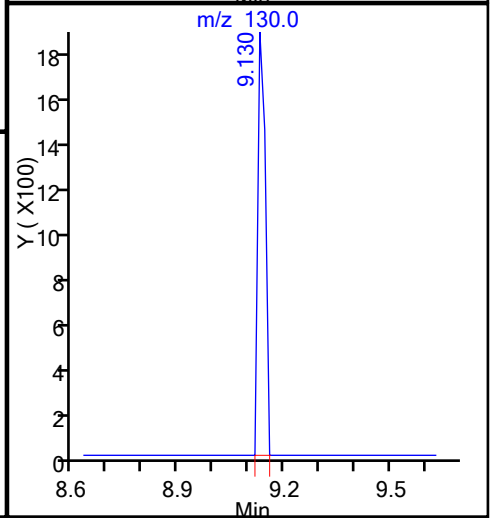
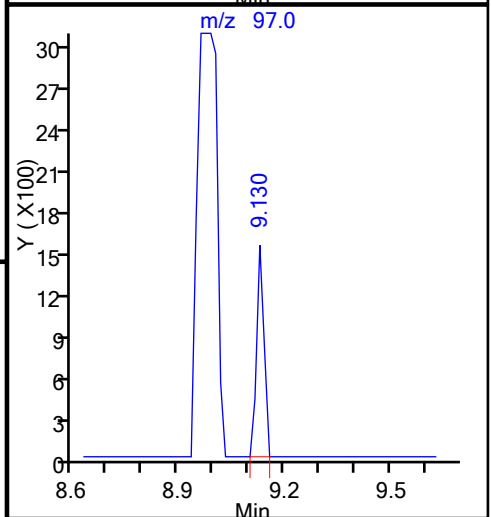
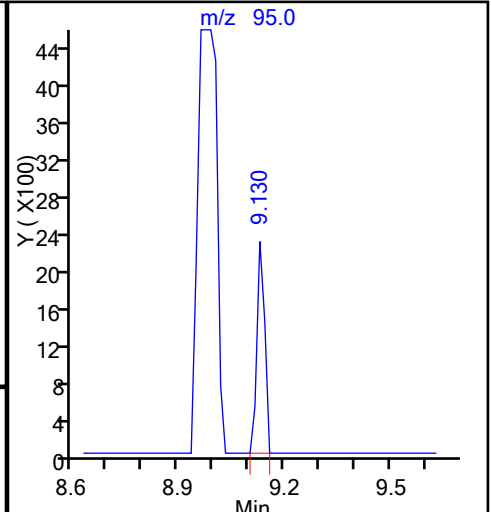
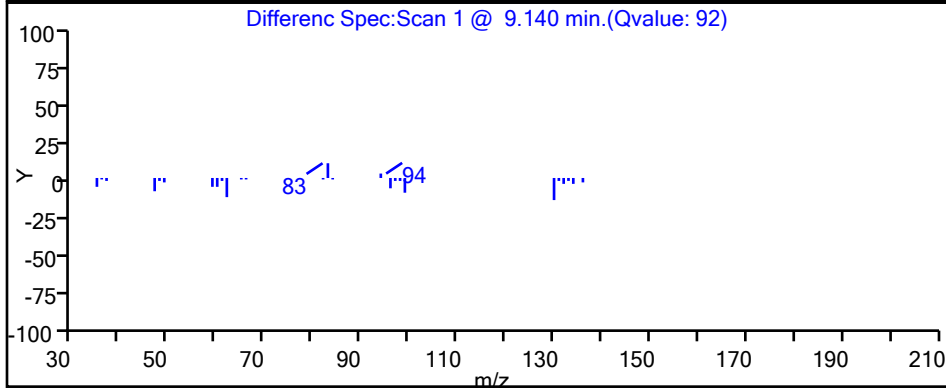
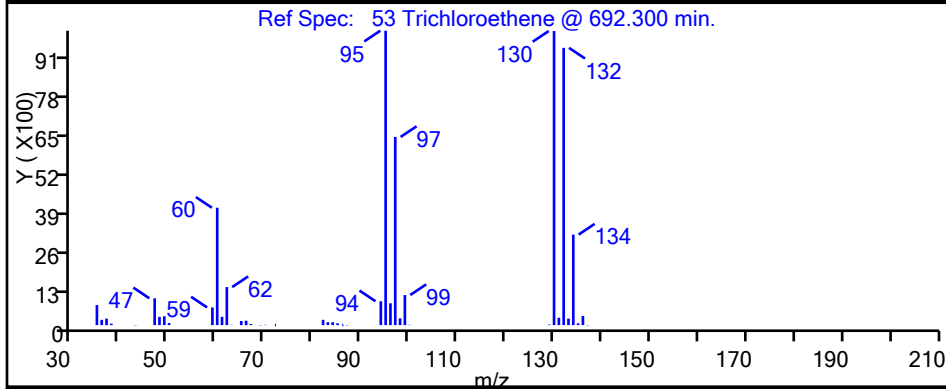
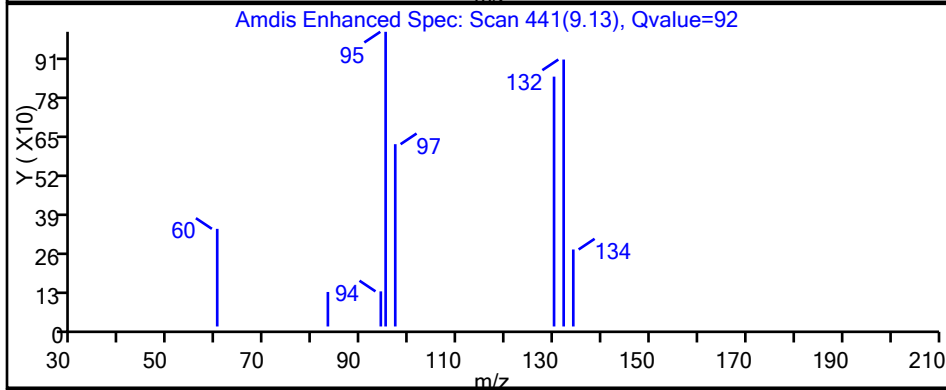
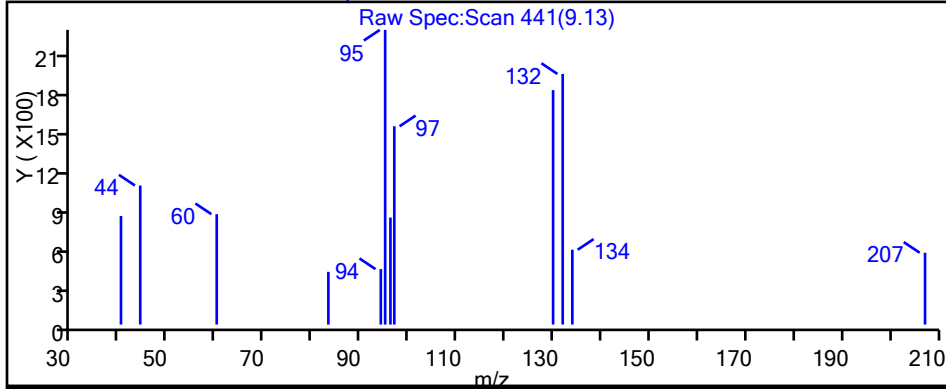
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

53 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: TB03 Lab Sample ID: 280-89533-8

Matrix: Water Lab File ID: LSMP6225.D

Analysis Method: 8260C DOD Date Collected: 10/11/2016 08:00

Sample wt/vol: 5(mL) Date Analyzed: 10/21/2016 16:14

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.6	J	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	0.71	J	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.0	U	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: TB03 Lab Sample ID: 280-89533-8

Matrix: Water Lab File ID: LSMP6225.D

Analysis Method: 8260C DOD Date Collected: 10/11/2016 08:00

Sample wt/vol: 5 (mL) Date Analyzed: 10/21/2016 16:14

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		81-118
460-00-4	4-Bromofluorobenzene (Surr)	110		85-114
1868-53-7	Dibromofluoromethane (Surr)	106		80-119
2037-26-5	Toluene-d8 (Surr)	103		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6225.D
 Lims ID: 280-89533-A-8
 Client ID: TB03
 Sample Type: Client
 Inject. Date: 21-Oct-2016 16:14:30 ALS Bottle#: 16 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0008795-018
 Misc. Info.: 280-89533-a-8
 Operator ID: ADB Instrument ID: VMSL
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 11:50:18 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:36:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.055				ND	
3 Chloromethane	50		3.404				ND	
4 Vinyl chloride	62		3.558				ND	
5 Bromomethane	94	4.158	4.158	0.000	48	2589	0.3610	
6 Chloroethane	64		4.382				ND	
7 Trichlorofluoromethane	101		4.619				ND	
9 1,1-Dichloroethene	96		5.443				ND	
10 Carbon disulfide	76	5.485	5.485	0.000	98	25370	0.7053	
17 Methylene Chloride	84		6.239				ND	
18 Acetone	43		6.309				ND	
19 trans-1,2-Dichloroethene	96		6.449				ND	
22 Methyl tert-butyl ether	73		6.560				ND	
28 1,1-Dichloroethane	63		7.161				ND	
32 cis-1,2-Dichloroethene	96		7.748				ND	
33 2,2-Dichloropropane	77		7.859				ND	
35 Chlorobromomethane	128		7.957				ND	
36 Chloroform	83		8.013				ND	
37 Carbon tetrachloride	117		8.167				ND	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.195	0.000	93	391314	53.1	
40 1,1,1-Trichloroethane	97		8.236				ND	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	97	10570	5.57	
42 1,1-Dichloropropene	75		8.348				ND	
44 Benzene	78		8.600				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	94	417534	52.1	
49 1,2-Dichloroethane	62		8.795				ND	
* 51 Fluorobenzene	96	8.977	8.977	0.000	99	1899653	50.0	
53 Trichloroethene	95		9.130				ND	
55 Dibromomethane	93		9.549				ND	
56 1,2-Dichloropropane	63		9.633				ND	
57 Dichlorobromomethane	83		9.661				ND	
61 cis-1,3-Dichloropropene	75		10.234				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	1681889	51.5	
63 Toluene	92	10.443	10.443	0.000	40	3831	0.1524	
66 4-Methyl-2-pentanone (MIBK)	43		10.750				ND	
67 trans-1,3-Dichloropropene	75		10.806				ND	
65 Tetrachloroethene	164		10.806				ND	
68 1,1,2-Trichloroethane	83		10.960				ND	
70 Chlorodibromomethane	129		11.141				ND	
71 1,3-Dichloropropane	76		11.225				ND	
72 Ethylene Dibromide	107		11.393				ND	
74 2-Hexanone	43		11.491				ND	
78 Ethylbenzene	91		11.826				ND	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	86	1301647	50.0	
77 Chlorobenzene	112		11.840				ND	
79 1,1,1,2-Tetrachloroethane	131		11.882				ND	
80 m-Xylene & p-Xylene	106		11.951				ND	
82 o-Xylene	106		12.356				ND	
83 Styrene	104		12.398				ND	
84 Bromoform	173		12.468				ND	
85 Isopropylbenzene	105		12.622				ND	
\$ 86 4-Bromofluorobenzene (Surr)	95	12.929	12.929	0.000	92	559703	55.2	
88 N-Propylbenzene	91		13.013				ND	
87 Bromobenzene	156		13.055				ND	
89 1,1,2,2-Tetrachloroethane	83		13.083				ND	
91 1,3,5-Trimethylbenzene	105		13.180				ND	
90 2-Chlorotoluene	91		13.194				ND	
92 1,2,3-Trichloropropane	110		13.236				ND	
95 4-Chlorotoluene	91		13.348				ND	
96 tert-Butylbenzene	119		13.502				ND	
97 1,2,4-Trimethylbenzene	105		13.558				ND	
98 sec-Butylbenzene	105		13.669				ND	
99 4-Isopropyltoluene	119		13.781				ND	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.991	0.000	96	614249	50.0	
103 n-Butylbenzene	134		14.200				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.220				ND	
110 Naphthalene	128		16.239				ND	
111 1,2,3-Trichlorobenzene	180		16.435				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00066

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6225.D

Injection Date: 21-Oct-2016 16:14:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: 280-89533-A-8

Lab Sample ID: 160-89533-8

Worklist Smp#: 18

Client ID: TB03

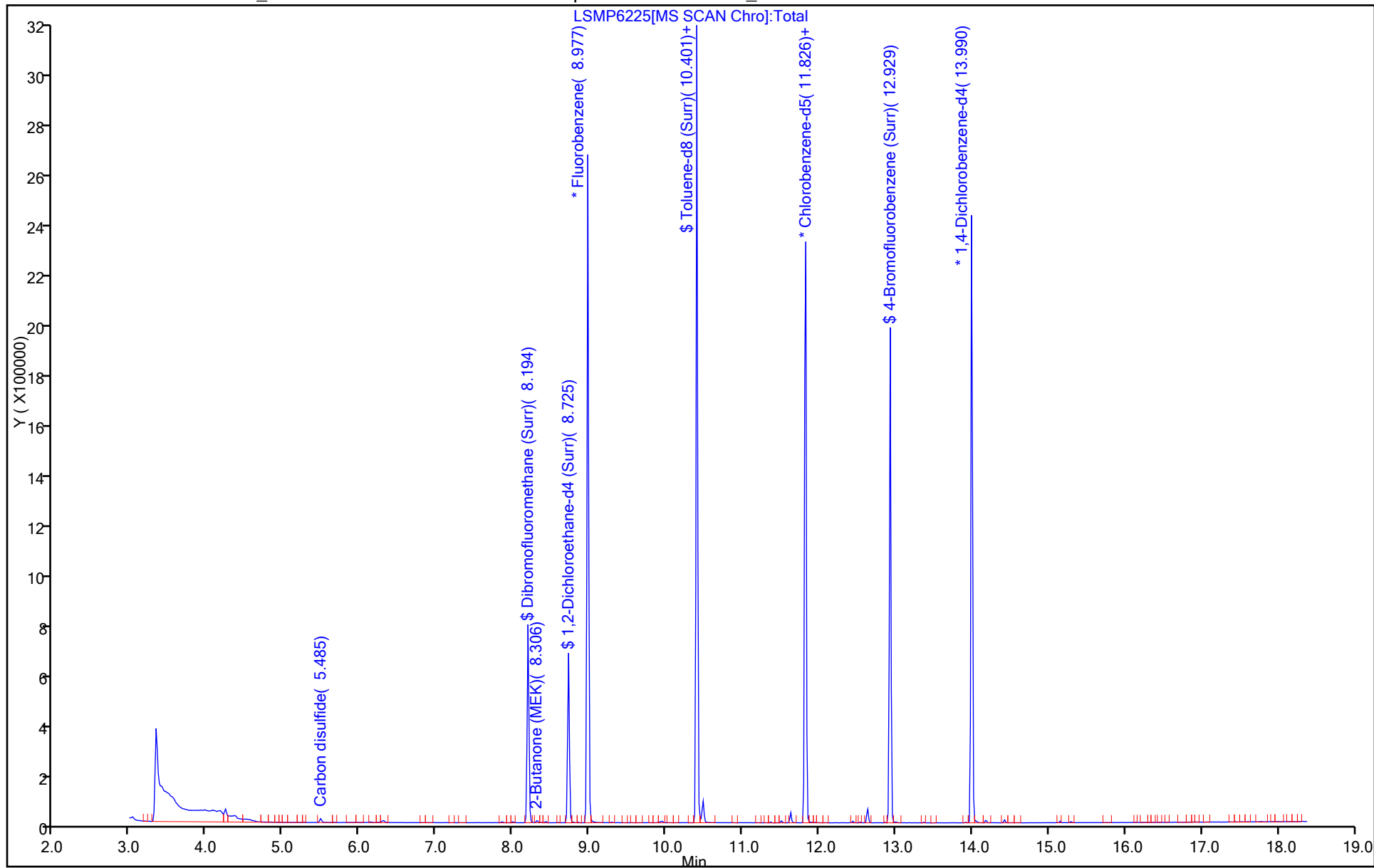
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSP6225.D
Lims ID: 280-89533-A-8
Client ID: TB03
Sample Type: Client
Inject. Date: 21-Oct-2016 16:14:30 ALS Bottle#: 16 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0008795-018
Misc. Info.: 280-89533-a-8
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 24-Oct-2016 11:50:18 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:36:20

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	53.1	106.24
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	52.1	104.23
\$ 62 Toluene-d8 (Surr)	50.0	51.5	102.99
\$ 86 4-Bromofluorobenzene (Surr)	50.0	55.2	110.46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6225.D

Injection Date: 21-Oct-2016 16:14:30

Instrument ID: VMSL

Lims ID: 280-89533-A-8

Lab Sample ID: 160-89533-8

Client ID: TB03

Operator ID: ADB

ALS Bottle#: 16

Worklist Smp#: 18

Purge Vol: 5.000 mL

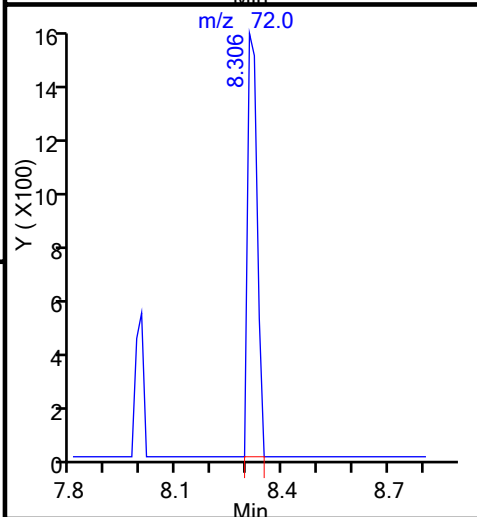
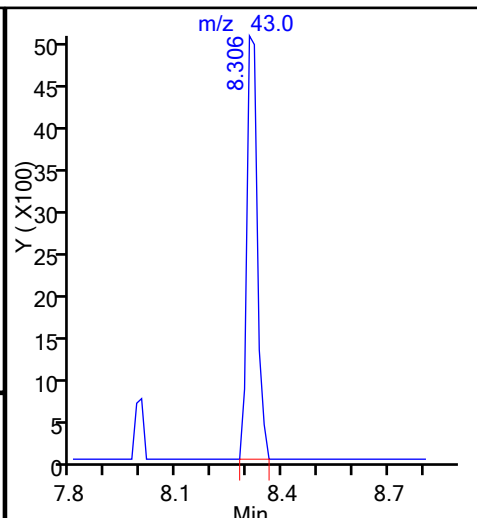
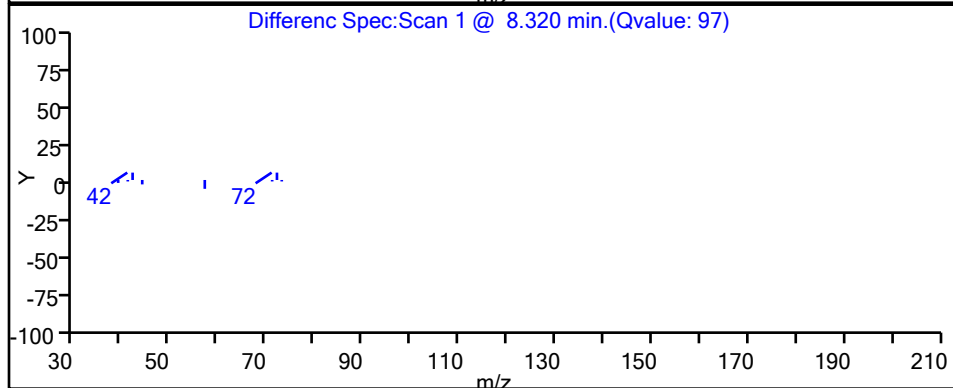
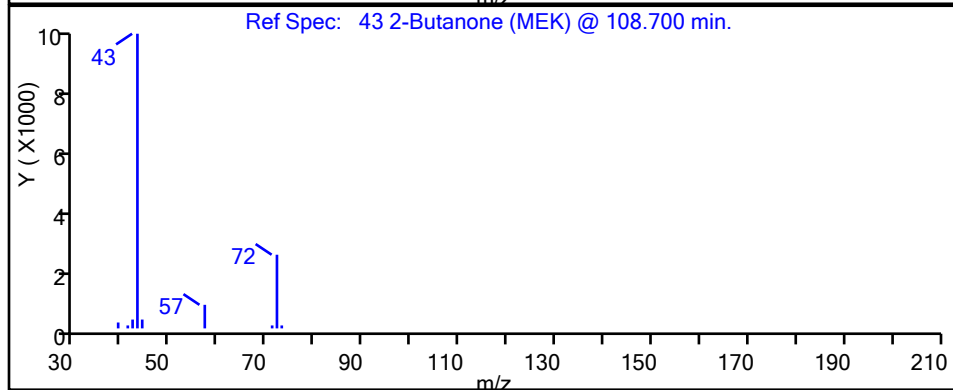
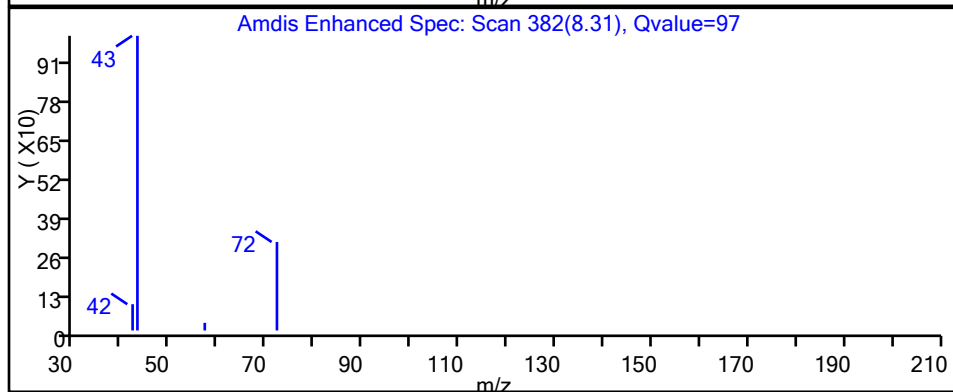
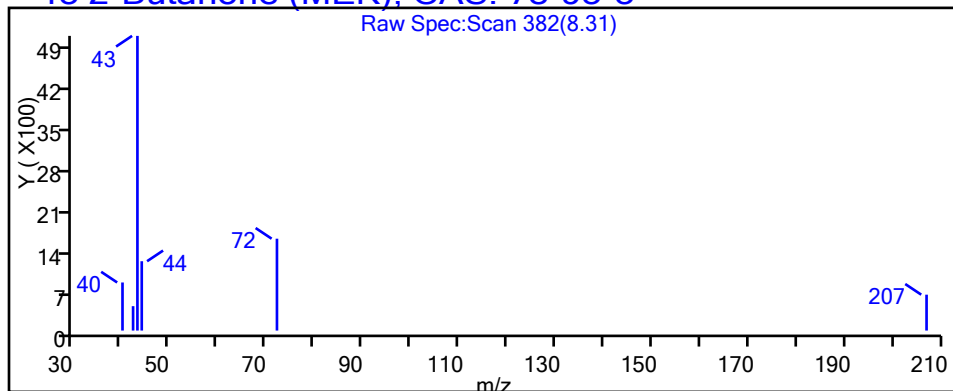
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

43 2-Butanone (MEK). CAS: 78-93-3

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6225.D

Injection Date: 21-Oct-2016 16:14:30

Instrument ID: VMSL

Lims ID: 280-89533-A-8

Lab Sample ID: 160-89533-8

Client ID: TB03

Operator ID: ADB

ALS Bottle#: 16

Worklist Smp#: 18

Purge Vol: 5.000 mL

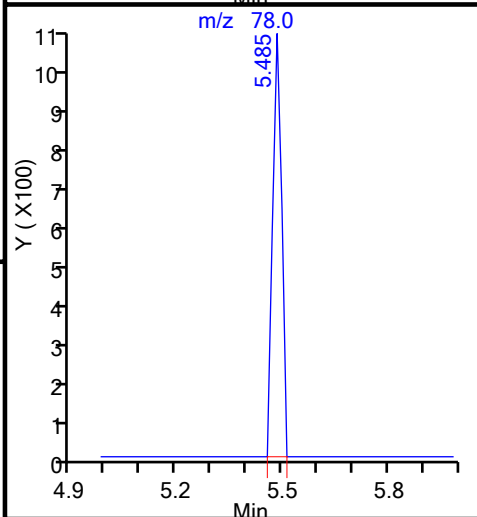
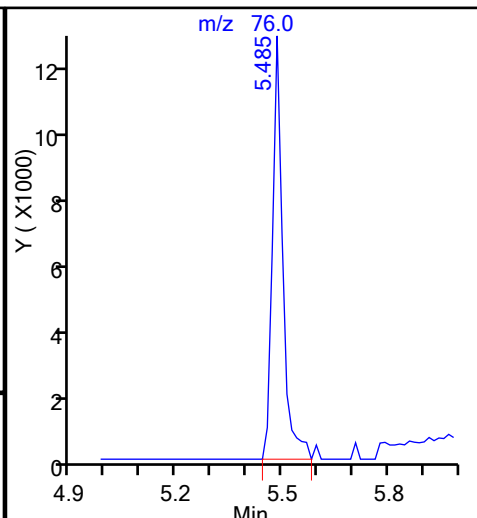
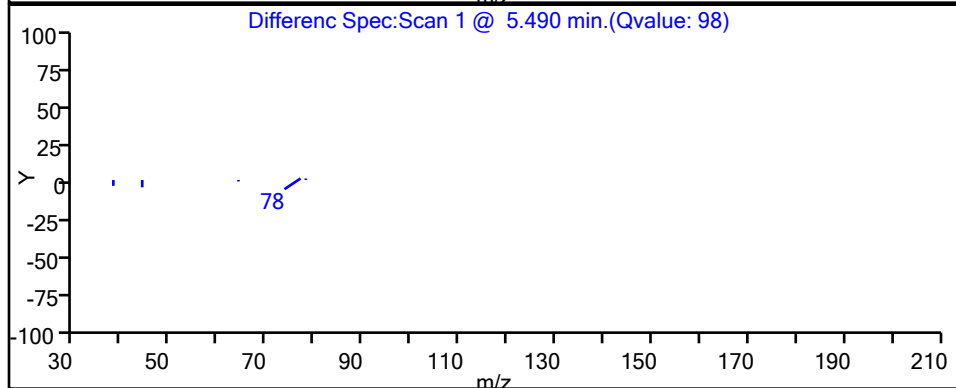
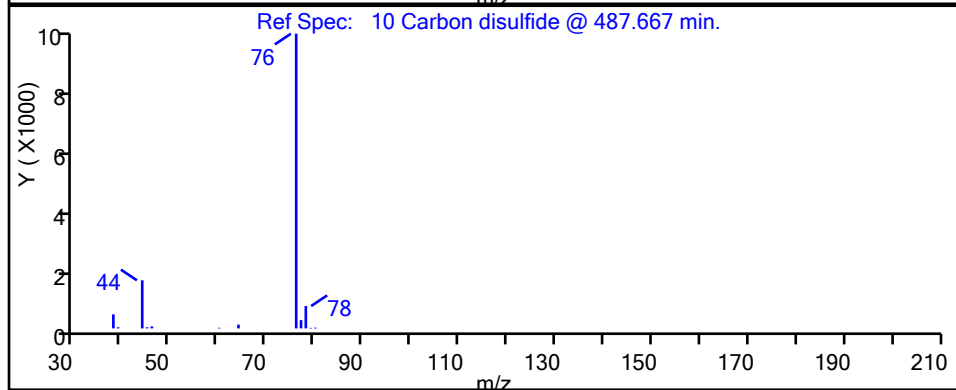
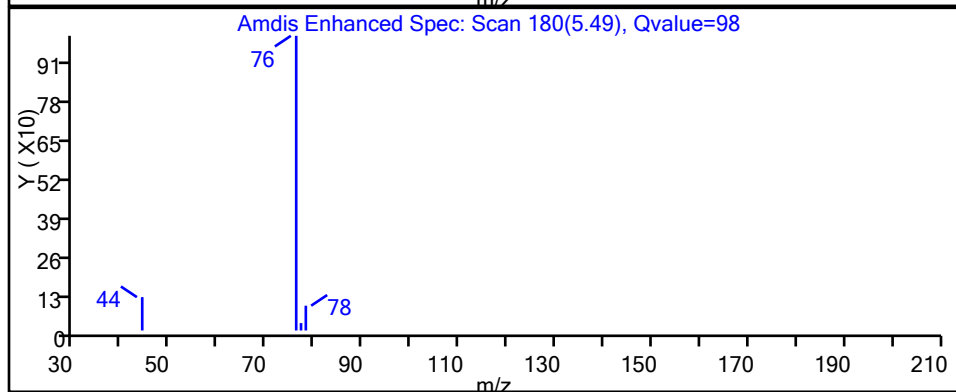
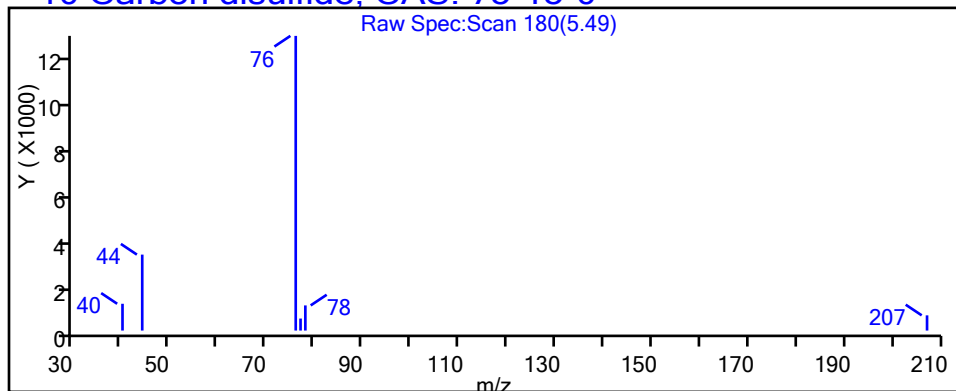
Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

10 Carbon disulfide, CAS: 75-15-0

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1 Analy Batch No.: 275235

SDG No.: _____

Instrument ID: VMSL GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/20/2016 11:15 Calibration End Date: 10/20/2016 15:55 Calibration ID: 11712

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-275235/5	LICL6158.D
Level 2	IC 160-275235/6	LICL6159.D
Level 3	IC 160-275235/7	LICL6160.D
Level 4	IC 160-275235/16	LICL6169.D
Level 5	IC 160-275235/9	LICL6162.D
Level 6	ICIS 160-275235/15	LICL6167.D
Level 7	IC 160-275235/11	LICL6164.D
Level 8	IC 160-275235/12	LICL6165.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								
Dichlorodifluoromethane	+++++ 0.3310	+++++ 0.2899	0.4218 0.2784	0.3264	0.3704	Lin1	0.8273	0.2832			0.1000				0.9950		0.9900
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 0.1823	+++++ 0.1676	0.2095 0.1604	0.1738	0.1859	Ave		0.1799			0.0100	9.6		15.0			
Chloromethane	+++++ 0.3181	+++++ 0.3326	0.3972 0.3147	0.3399	0.3264	Ave		0.3381			0.1000	9.0		15.0			
Vinyl chloride	+++++ 0.3487	+++++ 0.3551	0.3944 0.3289	0.3411	0.3580	Ave		0.3544			0.1000	6.3		15.0			
Butadiene	+++++ 0.3243	+++++ 0.3380	0.3658 0.3058	0.3179	0.3501	Ave		0.3337			0.0100	6.6		15.0			
Bromomethane	+++++ 0.1736	+++++ 0.1584	0.2299 0.1696	0.2026	0.1985	Ave		0.1888			0.1000	14.0		15.0			
Chloroethane	+++++ 0.2032	+++++ 0.1746	0.2863 0.2152	0.2052	0.2403	Qua	1.2358	0.1364	0.0003592		0.1000				0.9970		0.9900
Trichlorofluoromethane	+++++ 0.4379	+++++ 0.4774	0.5762 0.4413	0.4225	0.5189	Ave		0.4790			0.1000	12.3		15.0			
Dichlorofluoromethane	+++++ 0.4901	+++++ 0.5290	0.6377 0.5095	0.4818	0.5654	Ave		0.5356			0.0100	10.9		15.0			
Ethyl ether	+++++ 0.1085	+++++ 0.1118	0.1029 0.1189	0.1064	0.1061	Ave		0.1091			0.0100	5.1		15.0			
Ethanol	+++++ 0.0010	+++++ 0.0011	0.0012 0.0012	0.0011	0.0011	Ave		0.0011		*	0.0100	6.8		15.0			
1,1-Dichloroethene	+++++ 0.2512	+++++ 0.2575	0.2537 0.2601	0.2483	0.2495	Ave		0.2534			0.1000	1.8		15.0			
Carbon disulfide	+++++ 0.9147	+++++ 0.9546	1.0229 0.9233	0.9045	0.9602	Ave		0.9467			0.1000	4.6		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2274	+++++ 0.2386	0.2755 0.2319	0.2268	0.2482	Ave		0.2414			0.1000	7.7		15.0			

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

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1 Analy Batch No.: 275235

SDG No.: _____

Instrument ID: VMSL GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/20/2016 11:15 Calibration End Date: 10/20/2016 15:55 Calibration ID: 11712

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								
Iodomethane	++++ 0.1634	++++ 0.1716	0.0809 0.2063	0.0878	0.1129	Qua	-0.525	0.1496	0.0002959		0.0100				1.0000		0.9900
Acrolein	++++ 0.0147	++++ 0.0145	0.0125 0.0159	0.0139	0.0131	Ave		0.0141			0.0010	8.8		15.0			
3-Chloro-1-propene	++++ 0.2576	++++ 0.2761	0.2573 0.2702	0.2427	0.2659	Ave		0.2616			0.0100	4.5		15.0			
Isopropyl alcohol	++++ 0.0058	++++ 0.0058	0.0058 0.0065	0.0058	0.0060	Ave		0.0060		*	0.0100	5.1		15.0			
Methylene Chloride	++++ 0.2304	++++ 0.2341	0.2734 0.2362	0.2353	0.2411	Ave		0.2418			0.1000	6.6		15.0			
Acetone	++++ 0.0307	++++ 0.0277	0.0691 0.0312	0.0485	0.0417	Lin1	0.2004	0.0286		*	0.1000				0.9930		0.9900
Methyl acetate	++++ 0.0185	++++ 0.0187	0.0198 0.0199	0.0186	0.0193	Ave		0.0191		*	0.1000	3.2		15.0			
trans-1,2-Dichloroethene	++++ 0.2698	++++ 0.2726	0.2741 0.2688	0.2629	0.2642	Ave		0.2687			0.1000	1.7		15.0			
Hexane	++++ 0.0983	++++ 0.1002	0.0795 0.0980	0.0939	0.0932	Ave		0.0938			0.0100	8.0		15.0			
Methyl tert-butyl ether	++++ 0.4481	++++ 0.4708	0.4305 0.4999	0.4311	0.4617	Ave		0.4570			0.1000	5.8		15.0			
Acetonitrile	++++ 0.0117	++++ 0.0118	0.0143 0.0125	0.0123	0.0129	Ave		0.0126			0.0010	7.8		15.0			
2-Methyl-2-propanol	++++ 0.0075	++++ 0.0077	0.0064 0.0081	0.0070	0.0070	Ave		0.0073		*	0.0100	8.2		15.0			
Isopropyl ether	++++ 0.6015	++++ 0.6262	0.4831 0.6449	0.5592	0.5472	Ave		0.5770			0.0100	10.3		15.0			
2-Chloro-1,3-butadiene	++++ 0.4098	++++ 0.4435	0.3349 0.4328	0.3620	0.3895	Ave		0.3954			0.0100	10.6		15.0			
1,1-Dichloroethane	++++ 0.4566	++++ 0.4787	0.5274 0.4697	0.4492	0.4870	Ave		0.4781			0.2000	5.8		15.0			
Acrylonitrile	++++ 0.0378	++++ 0.0380	0.0398 0.0397	0.0385	0.0405	Ave		0.0390			0.0100	2.8		15.0			
Tert-butyl ethyl ether	++++ 0.5433	++++ 0.5757	0.4590 0.5995	0.4986	0.5145	Ave		0.5318			0.0100	9.7		15.0			
Vinyl acetate	++++ 0.3190	++++ 0.3383	0.2946 0.3484	0.2943	0.3220	Ave		0.3194			0.0100	6.9		15.0			
cis-1,2-Dichloroethene	++++ 0.2661	++++ 0.2722	0.2519 0.2731	0.2598	0.2556	Ave		0.2631			0.1000	3.3		15.0			
2,2-Dichloropropane	++++ 0.4393	++++ 0.4405	0.4621 0.4308	0.4210	0.4430	Ave		0.4395			0.0100	3.1		15.0			

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

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1 Analy Batch No.: 275235

SDG No.: _____

Instrument ID: VMSL GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/20/2016 11:15 Calibration End Date: 10/20/2016 15:55 Calibration ID: 11712

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								
Bromochloromethane	+++++ 0.0934	+++++ 0.0919	0.1093 0.0949	0.0958	0.0970	Ave		0.0970			0.0100	6.5		15.0			
Cyclohexane	+++++ 0.4874	+++++ 0.4994	0.3940 0.4809	0.4581	0.4542	Ave		0.4623			0.1000	8.1		15.0			
Chloroform	+++++ 0.4358	+++++ 0.4560	0.5203 0.4509	0.4275	0.4704	Ave		0.4601			0.2000	7.2		15.0			
Ethyl acetate	+++++ 0.0138	+++++ 0.0146	0.0141 0.0160	0.0130	0.0142	Ave		0.0143			0.0100	6.9		15.0			
Carbon tetrachloride	+++++ 0.3875	+++++ 0.4171	0.4561 0.4004	0.3733	0.4174	Ave		0.4086			0.1000	7.1		15.0			
Tetrahydrofuran	+++++ 0.0127	+++++ 0.0127	0.0095 0.0144	0.0114	0.0110	Ave		0.0120			0.0010	14.2		15.0			
1,1,1-Trichloroethane	+++++ 0.4410	+++++ 0.4685	0.5069 0.4492	0.4254	0.4658	Ave		0.4595			0.1000	6.1		15.0			
2-Butanone (MEK)	+++++ 0.0460	+++++ 0.0440	0.0590 0.0493	0.0516	0.0496	Ave		0.0499		*	0.1000	10.5		15.0			
1,1-Dichloropropene	+++++ 0.3985	+++++ 0.4142	0.3541 0.3973	0.3715	0.3747	Ave		0.3850			0.0100	5.7		15.0			
Isooctane	+++++ 1.1725	+++++ 1.2087	0.9650 1.1538	1.0952	1.1386	Ave		1.1223			0.0100	7.6		15.0			
n-Heptane	+++++ 0.4743	+++++ 0.4911	0.3957 0.4550	0.4498	0.4700	Ave		0.4560			0.0100	7.2		15.0			
Benzene	+++++ 1.0745	+++++ 1.0932	1.1836 1.0432	1.0868	1.0997	Ave		1.0969			0.5000	4.3		15.0			
Propionitrile	+++++ 0.0142	+++++ 0.0143	0.0169 0.0150	0.0153	0.0158	Ave		0.0153			0.0010	6.7		15.0			
Methacrylonitrile	+++++ 0.0700	+++++ 0.0732	0.0803 0.0736	0.0709	0.0798	Ave		0.0746			0.0100	5.9		15.0			
Tert-amyl methyl ether	+++++ 0.4790	+++++ 0.5086	0.4739 0.5318	0.4561	0.4868	Ave		0.4894			0.0100	5.5		15.0			
Isobutyl alcohol	+++++ 0.0026	+++++ 0.0027	0.0025 0.0031	0.0024	0.0027	Ave		0.0027			0.0010	9.0		15.0			
1,2-Dichloroethane	+++++ 0.2322	+++++ 0.2526	0.2929 0.2523	0.2270	0.2693	Ave		0.2544			0.1000	9.6		15.0			
Methylcyclohexane	+++++ 0.4134	+++++ 0.4314	0.3921 0.4019	0.3938	0.4107	Ave		0.4072			0.1000	3.6		15.0			
Trichloroethene	+++++ 0.2843	+++++ 0.2921	0.3194 0.2747	0.2796	0.2923	Ave		0.2904			0.2000	5.4		15.0			
n-Butanol	+++++ 0.0027	+++++ 0.0029	0.0021 0.0034	0.0023	0.0025	Qua	-0.008	0.0023	0.0000002	*	0.0100				1.0000		0.9900

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

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1 Analy Batch No.: 275235

SDG No.: _____

Instrument ID: VMSL GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/20/2016 11:15 Calibration End Date: 10/20/2016 15:55 Calibration ID: 11712

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								
Dibromomethane	++++ 0.0976	++++ 0.1020	0.1154 0.1059	0.0981	0.1039	Ave		0.1038			0.0100	6.3		15.0			
Ethyl acrylate	++++ 0.1358	++++ 0.1468	0.1005 0.1651	0.1171	0.1143	Lin1	-0.450	0.1588			0.0100				0.9940		0.9900
1,2-Dichloropropane	++++ 0.2344	++++ 0.2435	0.2418 0.2413	0.2266	0.2324	Ave		0.2367			0.1000	2.8		15.0			
Bromodichloromethane	++++ 0.2834	++++ 0.3040	0.3222 0.3053	0.2673	0.2910	Ave		0.2955			0.2000	6.5		15.0			
Methyl methacrylate	++++ 0.0921	++++ 0.0987	0.0654 0.1080	0.0767	0.0805	Lin1	-0.570	0.1052			0.0100				0.9960		0.9900
1,4-Dioxane	++++ 0.0013	++++ 0.0013	0.0010 0.0014	0.0012	0.0012	Ave		0.0012			0.0010	11.2		15.0			
2-Chloroethyl vinyl ether	++++ 0.0780	++++ 0.0814	0.0501 0.0894	0.0616	0.0596	Lin1	-0.268	0.0872			0.0100				0.9960		0.9900
cis-1,3-Dichloropropene	++++ 0.3537	++++ 0.3666	0.2983 0.3735	0.3168	0.3245	Ave		0.3389			0.2000	8.9		15.0			
Toluene	++++ 1.0012	++++ 1.0059	0.8790 0.9865	0.9585	0.9618	Ave		0.9655			0.4000	4.8		15.0			
2-Nitropropane	++++ 0.0389	++++ 0.0452	0.0371 0.0532	0.0344	0.0383	Qua	-0.040	0.0366	0.0000420		0.0100				1.0000		0.9900
4-Methyl-2-pentanone (MIBK)	++++ 0.1302	++++ 0.1436	0.1056 0.1690	0.1133	0.1185	Qua	-0.092	0.1195	0.0002496		0.1000				1.0000		0.9900
Tetrachloroethene	++++ 0.3707	++++ 0.3751	0.3659 0.3481	0.3646	0.3565	Ave		0.3635			0.2000	2.7		15.0			
trans-1,3-Dichloropropene	++++ 0.4106	++++ 0.4328	0.3442 0.4553	0.3647	0.3902	Ave		0.3996			0.1000	10.4		15.0			
Ethyl methacrylate	++++ 0.2626	++++ 0.2849	0.1642 0.3268	0.2059	0.2156	Lin1	-1.096	0.3136			0.0100				0.9930		0.9900
1,1,2-Trichloroethane	++++ 0.1796	++++ 0.1842	0.2041 0.1993	0.1760	0.1866	Ave		0.1883			0.1000	5.9		15.0			
Dibromochloromethane	++++ 0.2479	++++ 0.2649	0.2533 0.2907	0.2292	0.2451	Ave		0.2552			0.1000	8.2		15.0			
1,3-Dichloropropane	++++ 0.3893	++++ 0.4039	0.3928 0.4366	0.3774	0.3840	Ave		0.3973			0.0100	5.3		15.0			
n-Butyl acetate	++++ 0.2303	++++ 0.2544	0.1486 0.2989	0.1821	0.1853	Lin1	-1.049	0.2839			0.0100				0.9900		0.9900
1,2-Dibromoethane	++++ 0.1982	++++ 0.2043	0.1991 0.2208	0.1903	0.1991	Ave		0.2020			0.1000	5.1		15.0			
2-Hexanone	++++ 0.0943	++++ 0.0988	0.0907 0.1176	0.0915	0.0855	Ave		0.0964		*	0.1000	11.7		15.0			

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

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1 Analy Batch No.: 275235
SDG No.: _____
Instrument ID: VMSL GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y
Calibration Start Date: 10/20/2016 11:15 Calibration End Date: 10/20/2016 15:55 Calibration ID: 11712

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-Chlorohexane	++++ 0.6221	++++ 0.6350	0.3753 0.5799	0.5412	0.4983	Lin1	-1.025	0.6078			0.0100				0.9960		0.9900
Ethylbenzene	++++ 1.9349	++++ 1.9691	1.9307 1.7460	1.8890	1.8782	Ave		1.8913			0.1000	4.1		15.0			
Chlorobenzene	++++ 1.0071	++++ 1.0218	1.1205 0.9761	1.0281	1.0164	Ave		1.0284			0.5000	4.7		15.0			
1,1,1,2-Tetrachloroethane	++++ 0.3300	++++ 0.3472	0.3742 0.3564	0.3208	0.3350	Ave		0.3439			0.0100	5.7		15.0			
m,p-Xylenes	++++ 0.7562	++++ 0.7747	0.6191 0.7293	0.6940	0.6750	Ave		0.7080			0.1000	8.1		15.0			
o-Xylene	++++ 0.6693	++++ 0.6968	0.4578 0.6742	0.5879	0.5733	Ave		0.6099			0.3000	14.7		15.0			
Styrene	++++ 1.0481	++++ 1.0928	0.7415 1.0482	0.9011	0.9435	Ave		0.9625			0.3000	13.5		15.0			
Bromoform	++++ 0.2771	++++ 0.2846	0.2953 0.3435	0.2494	0.2768	Ave		0.2878			0.1000	10.9		15.0			
Isopropylbenzene	++++ 3.8367	++++ 3.7596	2.8835 3.6519	3.4671	3.3497	Ave		3.4914			0.1000	10.0		15.0			
N-Propylbenzene	++++ 4.4969	++++ 4.4042	3.3842 3.9260	4.1069	4.0305	Ave		4.0581			0.0100	9.8		15.0			
Bromobenzene	++++ 0.7752	++++ 0.7684	0.8163 0.8252	0.7746	0.7696	Ave		0.7882			0.0100	3.2		15.0			
1,1,2,2-Tetrachloroethane	++++ 0.4432	++++ 0.4516	0.5369 0.5198	0.4478	0.4812	Ave		0.4801			0.3000	8.3		15.0			
1,3,5-Trimethylbenzene	++++ 3.0689	++++ 3.1092	2.2287 2.9105	2.7553	2.6843	Ave		2.7928			0.0100	11.6		15.0			
2-Chlorotoluene	++++ 2.8431	++++ 2.8424	2.7082 2.7834	2.7268	2.7695	Ave		2.7789			0.0100	2.0		15.0			
1,2,3-Trichloropropane	++++ 0.1400	++++ 0.1418	0.1677 0.1627	0.1346	0.1514	Ave		0.1497			0.0100	8.9		15.0			
trans-1,4-Dichloro-2-butene	++++ 0.1218	++++ 0.1228	0.1299 0.1442	0.1081	0.1255	Ave		0.1254			0.0100	9.4		15.0			
Cyclohexanone	++++ 0.0108	++++ 0.0108	0.0091 0.0144	0.0099	0.0097	Qua	0.2524	0.0076	0.0000033		0.0010				0.9990		0.9900
4-Chlorotoluene	++++ 2.5581	++++ 2.5718	2.1946 2.5007	2.3799	2.3662	Ave		2.4286			0.0100	5.9		15.0			
tert-Butylbenzene	++++ 2.7886	++++ 2.8286	2.0845 2.6328	2.5200	2.4636	Ave		2.5530			0.0100	10.6		15.0			
1,2,4-Trimethylbenzene	++++ 3.0877	++++ 3.1348	2.4680 2.9413	2.8670	2.8585	Ave		2.8929			0.0100	8.2		15.0			

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

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1 Analy Batch No.: 275235
SDG No.: _____
Instrument ID: VMSL GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y
Calibration Start Date: 10/20/2016 11:15 Calibration End Date: 10/20/2016 15:55 Calibration ID: 11712

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								
sec-Butylbenzene	++++ 4.2986	++++ 4.3355	3.5752 3.7336	4.0329	3.9349	Ave		3.9851			0.0100	7.6		15.0			
p-Isopropyltoluene	++++ 3.6225	++++ 3.6836	2.6153 3.2203	3.2299	3.1808	Ave		3.2587			0.0100	11.8		15.0			
1,3-Dichlorobenzene	++++ 1.6100	++++ 1.6178	1.6438 1.5946	1.5797	1.5411	Ave		1.5978			0.6000	2.2		15.0			
1,2,3-Trimethylbenzene	++++ 2.8593	++++ 2.9655	2.7403 2.8676	2.6915	2.7380	Ave		2.8103			0.0100	3.7		15.0			
1,4-Dichlorobenzene	++++ 1.5788	++++ 1.5978	1.8179 1.5489	1.6401	1.6047	Ave		1.6314			0.5000	5.9		15.0			
n-Butylbenzene	++++ 0.9637	++++ 0.9828	0.7010 0.8502	0.8788	0.8209	Ave		0.8662			0.0100	11.9		15.0			
Benzyl chloride	++++ 0.2116	++++ 0.2039	0.1837 0.2306	0.1877	0.1859	Ave		0.2006			0.0100	9.2		15.0			
1,2-Dichlorobenzene	++++ 1.3559	++++ 1.3882	1.3446 1.3952	1.3187	1.3065	Ave		1.3515			0.4000	2.7		15.0			
n-Nonyl Aldehyde	++++ 0.2490	++++ 0.2792	0.1269 0.3461	0.1738	0.1787	Lin	-3.259	0.3509			0.0100				0.9910		0.9900
1,2-Dibromo-3-Chloropropane	++++ 0.0847	++++ 0.0878	0.0768 0.1058	0.0765	0.0849	Ave		0.0861			0.0500	12.4		15.0			
1,3,5-Trichlorobenzene	++++ 1.3951	++++ 1.3528	1.2730 1.2941	1.3662	1.2908	Ave		1.3287			0.0100	3.7		15.0			
Hexachlorobutadiene	++++ 0.8259	++++ 0.8178	0.7874 0.7145	0.8029	0.7408	Ave		0.7816			0.0100	5.7		15.0			
1,2,4-Trichlorobenzene	++++ 1.1068	++++ 1.0868	0.9051 1.1036	1.0284	0.9606	Ave		1.0319			0.2000	8.1		15.0			
Naphthalene	++++ 1.3471	++++ 1.3610	0.9035 1.5625	1.2252	1.0865	Qua	-1.043	1.2132	0.0017661		0.0100				1.0000		0.9900
1,2,3-Trichlorobenzene	++++ 0.8672	++++ 0.8468	0.7392 0.8550	0.8472	0.7875	Ave		0.8238			0.0100	6.0		15.0			
Dibromofluoromethane (Surr)	++++ 0.1925	++++ 0.1961	0.1894 0.2034	0.1848	0.1972	Ave		0.1939			0.0100	3.4		15.0			
1,2-Dichloroethane-d4 (Surr)	++++ 0.1955	++++ 0.2027	0.2347 0.2072	0.1950	0.2301	Ave		0.2109			0.0100	8.2		15.0			
Toluene-d8 (Surr)	++++ 1.3503	++++ 1.3004	1.0098 1.3163	1.2956	1.2551	Ave		1.2546			0.0100	9.9		15.0			
4-Bromofluorobenzene (Surr)	++++ 0.8810	++++ 0.8694	0.6452 0.9600	0.8227	0.7710	Ave		0.8249			0.0100	13.1		15.0			

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

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1 Analy Batch No.: 275235

SDG No.: _____

Instrument ID: VMSL GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/20/2016 11:15 Calibration End Date: 10/20/2016 15:55 Calibration ID: 11712

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-275235/5	LICL6158.D
Level 2	IC 160-275235/6	LICL6159.D
Level 3	IC 160-275235/7	LICL6160.D
Level 4	IC 160-275235/16	LICL6169.D
Level 5	IC 160-275235/9	LICL6162.D
Level 6	ICIS 160-275235/15	LICL6167.D
Level 7	IC 160-275235/11	LICL6164.D
Level 8	IC 160-275235/12	LICL6165.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Lin1	++++ 879304	++++ 1301758	77632 2576513	186809	286851	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	FB	Ave	++++ 484304	++++ 752461	38563 1484549	99476	143974	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Chloromethane	FB	Ave	++++ 845143	++++ 1493637	73103 2911599	194582	252787	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Vinyl chloride	FB	Ave	++++ 926358	++++ 1594689	72576 3043344	195266	277294	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Butadiene	FB	Ave	++++ 861658	++++ 1517924	67320 2829896	181969	271180	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Bromomethane	FB	Ave	++++ 461238	++++ 711128	42313 1569126	115986	153779	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Chloroethane	FB	Qua	++++ 539941	++++ 784285	52681 1991623	117482	186127	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	++++ 1163542	++++ 2144030	106041 4083609	241837	401866	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	++++ 1302019	++++ 2375717	117365 4714625	275798	437947	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Ethyl ether	FB	Ave	++++ 288230	++++ 502011	18937 1099816	60906	82149	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Ethanol	FB	Ave	++++ 111080	++++ 190480	9182 439489	25886	34553	++++ 2000	++++ 4000	200 8000	400	800
1,1-Dichloroethene	FB	Ave	++++ 667294	++++ 1156306	46690 2406793	142137	193255	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Carbon disulfide	FB	Ave	++++ 2430387	++++ 4286948	188256 8543685	517771	743663	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 604247	++++ 1071437	50700 2145966	129809	192231	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Iodomethane	FB	Qua	++++ 434204	++++ 770820	14888 1909405	50275	87478	++++ 50.0	++++ 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1 Analy Batch No.: 275235

SDG No.: _____

Instrument ID: VMSL GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/20/2016 11:15 Calibration End Date: 10/20/2016 15:55 Calibration ID: 11712

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Acrolein	FB	Ave	++++ 195854	++++ 324874	11480 737515	39900	50539	++++ 250	++++ 500	25.0 1000	50.0	100
3-Chloro-1-propene	FB	Ave	++++ 684376	++++ 1239721	47356 2500035	138935	205939	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Isopropyl alcohol	FB	Ave	++++ 153243	++++ 261474	10632 604401	32961	46817	++++ 500	++++ 1000	50.0 2000	100	200
Methylene Chloride	FB	Ave	++++ 612128	++++ 1051369	50323 2185278	134675	186754	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Acetone	FB	Lin1	++++ 81466	++++ 124572	12711 289087	27742	32260	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Methyl acetate	FB	Ave	++++ 246321	++++ 419271	18209 918776	53225	74827	++++ 250	++++ 500	25.0 1000	50.0	100
trans-1,2-Dichloroethene	FB	Ave	++++ 716909	++++ 1224338	50436 2487106	150494	204594	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Hexane	FB	Ave	++++ 261272	++++ 449855	14625 906388	53758	72194	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Methyl tert-butyl ether	FB	Ave	++++ 1190526	++++ 2114065	79237 4625727	246751	357607	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Acetonitrile	FB	Ave	++++ 309841	++++ 528338	26394 1153470	70376	100263	++++ 500	++++ 1000	50.0 2000	100	200
2-Methyl-2-propanol	FB	Ave	++++ 200489	++++ 347793	11798 747331	40089	54500	++++ 500	++++ 1000	50.0 2000	100	200
Isopropyl ether	FB	Ave	++++ 1598005	++++ 2811985	88903 5967432	320113	423819	++++ 50.0	++++ 100	5.00 200	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	++++ 1088863	++++ 1991808	61640 4005003	207226	301656	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	++++ 1213011	++++ 2149969	97054 4346531	257150	377208	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Acrylonitrile	FB	Ave	++++ 1003671	++++ 1706189	73239 3672845	220487	313850	++++ 500	++++ 1000	50.0 2000	100	200
Tert-butyl ethyl ether	FB	Ave	++++ 1443456	++++ 2585435	84469 5547559	285414	398497	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Vinyl acetate	FB	Ave	++++ 847608	++++ 1519143	54217 3224124	168438	249425	++++ 50.0	++++ 100	5.00 200	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	++++ 707061	++++ 1222426	46356 2527062	148696	197995	++++ 50.0	++++ 100	5.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	++++ 1167291	++++ 1978009	85047 3986700	240964	343107	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Bromochloromethane	FB	Ave	++++ 248207	++++ 412642	20119 877881	54829	75119	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Cyclohexane	FB	Ave	++++ 1294979	++++ 2242756	72517 4449608	262202	351776	++++ 50.0	++++ 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1 Analy Batch No.: 275235

SDG No.: _____

Instrument ID: VMSL GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/20/2016 11:15 Calibration End Date: 10/20/2016 15:55 Calibration ID: 11712

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Chloroform	FB	Ave	++++ 1157843	++++ 2047952	95763 4172040	244714	364306	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Ethyl acetate	FB	Ave	++++ 73411	++++ 131354	5184 296023	14912	22001	++++ 100	++++ 200	10.0 400	20.0	40.0
Carbon tetrachloride	FB	Ave	++++ 1029602	++++ 1873143	83937 3705398	213687	323265	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Tetrahydrofuran	FB	Ave	++++ 67443	++++ 114046	3495 266988	13091	16989	++++ 100	++++ 200	10.0 400	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	++++ 1171670	++++ 2103931	93294 4157028	243504	360803	++++ 50.0	++++ 100	5.00 200	10.0	20.0
2-Butanone (MEK)	FB	Ave	++++ 122316	++++ 197601	10865 456252	29555	38449	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	++++ 1058864	++++ 1860130	65170 3676324	212627	290189	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Isooctane	FB	Ave	++++ 3115332	++++ 5428259	177605 10676240	626922	881898	++++ 50.0	++++ 100	5.00 200	10.0	20.0
n-Heptane	FB	Ave	++++ 1260122	++++ 2205570	72828 4210368	257467	364061	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Benzene	FB	Ave	++++ 2854949	++++ 4909486	217818 9653541	622129	851759	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Propionitrile	FB	Ave	++++ 376350	++++ 642658	31151 1390755	87499	122756	++++ 500	++++ 1000	50.0 2000	100	200
Methacrylonitrile	FB	Ave	++++ 1860342	++++ 3287763	147745 6810694	406100	617824	++++ 500	++++ 1000	50.0 2000	100	200
Tert-amyl methyl ether	FB	Ave	++++ 1272571	++++ 2283903	87217 4920923	261092	377069	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Isobutyl alcohol	FB	Ave	++++ 171364	++++ 304072	11427 714699	34495	51336	++++ 1250	++++ 2500	125 5000	250	500
1,2-Dichloroethane	FB	Ave	++++ 616840	++++ 1134325	53907 2334757	129924	208592	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Methylcyclohexane	FB	Ave	++++ 1098427	++++ 1937211	72167 3718720	225420	318084	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Trichloroethene	FB	Ave	++++ 755326	++++ 1311633	58790 2542064	160064	226357	++++ 50.0	++++ 100	5.00 200	10.0	20.0
n-Butanol	FB	Qua	++++ 177914	++++ 321120	9584 792559	33342	47507	++++ 1250	++++ 2500	125 5000	250	500
Dibromomethane	FB	Ave	++++ 259226	++++ 457975	21242 979829	56126	80458	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Ethyl acrylate	FB	Lin1	++++ 360793	++++ 659400	18498 1527587	67030	88514	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	++++ 622754	++++ 1093426	44506 2232398	129708	180022	++++ 50.0	++++ 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1 Analy Batch No.: 275235

SDG No.: _____

Instrument ID: VMSL GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/20/2016 11:15 Calibration End Date: 10/20/2016 15:55 Calibration ID: 11712

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Bromodichloromethane	FB	Ave	++++ 753022	++++ 1365023	59304 2825095	152997	225372	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Methyl methacrylate	FB	Lin1	++++ 489433	++++ 886174	24079 1999172	87772	124644	++++ 100	++++ 200	10.0 400	20.0	40.0
1,4-Dioxane	FB	Ave	++++ 67841	++++ 113147	3786 265742	13355	18070	++++ 1000	++++ 2000	100 4000	200	400
2-Chloroethyl vinyl ether	FB	Lin1	++++ 207238	++++ 365583	9227 827240	35287	46133	++++ 50.0	++++ 100	5.00 200	10.0	20.0
cis-1,3-Dichloropropene	FB	Ave	++++ 939732	++++ 1646331	54896 3455875	181351	251298	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Toluene	CBNZ d5	Ave	++++ 1864591	++++ 3171491	113862 6154189	383424	523615	++++ 50.0	++++ 100	5.00 200	10.0	20.0
2-Nitropropane	CBNZ d5	Qua	++++ 145000	++++ 285073	9616 664049	27537	41713	++++ 100	++++ 200	10.0 400	20.0	40.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Qua	++++ 242409	++++ 452759	13673 1054001	45306	64540	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Tetrachloroethene	CBNZ d5	Ave	++++ 690396	++++ 1182682	47400 2171806	145848	194104	++++ 50.0	++++ 100	5.00 200	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	++++ 764602	++++ 1364386	44590 2840355	145884	212437	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Ethyl methacrylate	CBNZ d5	Lin1	++++ 488986	++++ 898121	21265 2038991	82376	117396	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 334556	++++ 580649	26435 1243006	70425	101601	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Dibromochloromethane	CBNZ d5	Ave	++++ 461735	++++ 835133	32815 1813739	91683	133414	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	++++ 724910	++++ 1273459	50875 2723477	150985	209039	++++ 50.0	++++ 100	5.00 200	10.0	20.0
n-Butyl acetate	CBNZ d5	Lin1	++++ 428949	++++ 802005	19255 1864949	72858	100877	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2-Dibromoethane	CBNZ d5	Ave	++++ 369131	++++ 644164	25794 1377362	76141	108373	++++ 50.0	++++ 100	5.00 200	10.0	20.0
2-Hexanone	CBNZ d5	Ave	++++ 175581	++++ 311618	11749 733911	36584	46536	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1-Chlorohexane	CBNZ d5	Lin1	++++ 1158558	++++ 2001907	48617 3617578	216515	271297	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	++++ 3603403	++++ 6208238	250096 10892366	755654	1022567	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Chlorobenzene	CBNZ d5	Ave	++++ 1875612	++++ 3221541	145150 6089476	411285	553367	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 614495	++++ 1094796	48467 2223531	128341	182400	++++ 50.0	++++ 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1 Analy Batch No.: 275235

SDG No.: _____

Instrument ID: VMSL GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/20/2016 11:15 Calibration End Date: 10/20/2016 15:55 Calibration ID: 11712

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
m,p-Xylenes	CBNZ d5	Ave	+++++ 1408316	+++++ 2442363	80198 4549419	277605	367502	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
o-Xylene	CBNZ d5	Ave	+++++ 1246372	+++++ 2196753	59302 4205701	235185	312112	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Styrene	CBNZ d5	Ave	+++++ 1951798	+++++ 3445249	96056 6538865	360462	513697	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromoform	DCBd 4	Ave	+++++ 263769	+++++ 479767	18950 1041094	50670	77744	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isopropylbenzene	DCBd 4	Ave	+++++ 3652110	+++++ 6338633	185012 11067518	704306	940764	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
N-Propylbenzene	DCBd 4	Ave	+++++ 4280597	+++++ 7425535	217135 11898000	834260	1131969	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromobenzene	DCBd 4	Ave	+++++ 737862	+++++ 1295574	52372 2500704	157340	216150	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 421864	+++++ 761423	34449 1575393	90962	135138	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 2921301	+++++ 5242191	142995 8820650	559701	753877	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 2706311	+++++ 4792376	173760 8435282	553923	777819	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 133267	+++++ 239051	10762 493163	27338	42533	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 115913	+++++ 206964	8332 437133	21962	35257	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Cyclohexanone	DCBd 4	Qua	+++++ 103123	+++++ 182269	5848 437299	20129	27152	+++++ 500	+++++ 1000	50.0 2000	100	200
4-Chlorotoluene	DCBd 4	Ave	+++++ 2435053	+++++ 4336140	140812 7578740	483444	664551	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 2654400	+++++ 4769094	133744 7979076	511901	691898	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 2939132	+++++ 5285339	158349 8913772	582385	802807	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 4091760	+++++ 7309657	229388 11315118	819225	1105116	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
p-Isopropyltoluene	DCBd 4	Ave	+++++ 3448233	+++++ 6210581	167801 9759361	656116	893326	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 1532532	+++++ 2727539	105466 4832723	320896	432823	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 2721727	+++++ 4999767	175821 8690543	546735	768960	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 1502838	+++++ 2693933	116637 4694038	333170	450677	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1 Analy Batch No.: 275235

SDG No.: _____

Instrument ID: VMSL GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/20/2016 11:15 Calibration End Date: 10/20/2016 15:55 Calibration ID: 11712

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
n-Butylbenzene	DCBd 4	Ave	++++ 917302	++++ 1657044	44976 2576673	178509	230548	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Benzyl chloride	DCBd 4	Ave	++++ 201413	++++ 343725	11786 698868	38135	52222	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	++++ 1290693	++++ 2340503	86270 4228353	267867	366943	++++ 50.0	++++ 100	5.00 200	10.0	20.0
n-Nonyl Aldehyde	DCBd 4	Lin	++++ 236987	++++ 470660	8141 1048932	35307	50189	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	++++ 80652	++++ 148013	4928 320674	15546	23855	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	++++ 1327994	++++ 2280755	81677 3921814	277533	362519	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Hexachlorobutadiene	DCBd 4	Ave	++++ 786191	++++ 1378852	50521 2165417	163106	208044	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	++++ 1053591	++++ 1832400	58073 3344629	208915	269782	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Naphthalene	DCBd 4	Qua	++++ 1282297	++++ 2294609	57972 4735403	248892	305135	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	++++ 825456	++++ 1427727	47430 2591293	172105	221183	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	++++ 511449	++++ 880492	34861 1882231	105767	152751	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	++++ 519413	++++ 910423	43200 1916891	111602	178238	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	++++ 2514617	++++ 4099927	130803 8211683	518296	683328	++++ 50.0	++++ 100	5.00 200	10.0	20.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	++++ 838663	++++ 1465882	41395 2909530	167120	216522	++++ 50.0	++++ 100	5.00 200	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6158.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 20-Oct-2016 11:15:30 ALS Bottle#: 2 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: .2
 Operator ID: ADB Instrument ID: VMSL
 Sublist: chrom-5mL-8260_VMSL*sub1
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 21-Oct-2016 09:28:41 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN

Process Host: XAWRK039

First Level Reviewer: buettnera

Date: 20-Oct-2016 14:14:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.069	3.069	0.000	96	9153	1.00	-2.02	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.292				ND	ND	
3 Chloromethane	50	3.404	3.404	0.000	98	9059	1.00	0.7494	
4 Vinyl chloride	62	3.558	3.558	0.000	95	7833	1.00	0.6183	
122 Butadiene	39	3.600	3.599	0.001	87	9380	1.00	0.7863	
5 Bromomethane	94	4.158	4.158	0.000	94	7259	1.00	1.08	
6 Chloroethane	64	4.396	4.382	0.014	97	6159	1.00	-7.97	
7 Trichlorofluoromethane	101	4.633	4.619	0.014	97	13312	1.00	0.7773	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	99	14064	1.00	0.7345	
8 Ethyl ether	74	5.136	5.136	0.000	87	2232	1.00	0.5723	
11 Ethanol	45		5.373				ND	ND	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	95	5405	1.00	0.5967	
10 Carbon disulfide	76	5.485	5.485	0.000	99	22628	1.00	0.6686	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	84	5508	1.00	0.6382	
13 Iodomethane	142		5.653				ND	ND	
S 26 1,2-Dichloroethene, Total	96				0			1.15	
14 Acrolein	56	5.932	5.918	0.014	91	2053	5.00	4.07	
15 3-Chloro-1-propene	39	6.099	6.099	0.000	92	5289	1.00	0.5655	
16 Isopropyl alcohol	45	6.127	6.127	0.000	45	1823	10.0	8.57	
17 Methylene Chloride	84	6.239	6.239	0.000	90	7640	1.00	0.8840	
18 Acetone	43	6.309	6.309	0.000	98	9641	1.00	2.42	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	97	5924	1.00	0.6166	
20 Methyl acetate	74	6.449	6.449	0.000	92	1695	5.00	2.48	
21 Hexane	86	6.518	6.532	-0.014	70	1210	1.00	0.3607	
22 Methyl tert-butyl ether	73	6.574	6.560	0.014	88	7353	1.00	0.4500	
24 Acetonitrile	41	6.882	6.882	0.000	90	4358	10.0	9.69	
25 Isopropyl ether	45	6.993	6.993	0.000	85	8726	1.00	0.4230	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	1	1017	10.0	3.90	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	31	5568	1.00	0.3939	
28 1,1-Dichloroethane	63	7.175	7.175	0.000	95	11013	1.00	0.6443	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.231	7.231	0.000	97	7261	10.0	5.20	
30 Tert-butyl ethyl ether	59	7.398	7.384	0.014	93	7793	1.00	0.4099	
31 Vinyl acetate	43	7.412	7.412	0.000	92	4534	1.00	0.3970	
32 cis-1,2-Dichloroethene	96	7.748	7.747	0.001	79	5001	1.00	0.5316	
33 2,2-Dichloropropane	77		7.859				ND	ND	
35 Chlorobromomethane	128	7.957	7.957	0.000	71	2356	1.00	0.6791	
34 Cyclohexane	84	7.957	7.957	0.000	80	6111	1.00	0.3697	
36 Chloroform	83	8.013	8.013	0.000	93	11245	1.00	0.6835	
39 Ethyl acetate	45		8.097				ND	ND	
37 Carbon tetrachloride	117	8.166	8.166	0.000	96	9599	1.00	0.6570	
38 Tetrahydrofuran	71		8.180				ND	ND	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.194	0.000	93	6068	1.00	0.8753	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	97	10399	1.00	0.6330	
43 2-Butanone (MEK)	43	8.320	8.306	0.014	97	3572	1.00	2.00	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	94	6223	1.00	0.4521	
125 Isooctane	57	8.432	8.432	0.000	96	15169	1.00	0.3780	
117 n-Heptane	43	8.502	8.502	0.000	76	5782	1.00	0.3547	
44 Benzene	78	8.599	8.599	0.000	93	25194	1.00	0.6425	
45 Propionitrile	54	8.613	8.613	0.000	44	3428	10.0	6.28	
46 Methacrylonitrile	41	8.627	8.627	0.000	87	13039	10.0	4.89	
48 Tert-amyl methyl ether	73	8.655	8.655	0.000	93	7120	1.00	0.4070	
50 Isobutyl alcohol	42		8.725				ND	ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	95	7819	1.00	1.04	
49 1,2-Dichloroethane	62	8.781	8.795	-0.014	94	6571	1.00	0.7225	
* 51 Fluorobenzene	96	8.977	8.976	0.001	99	1787569	50.0	50.0	
52 Methylcyclohexane	55	9.130	9.130	0.000	88	7353	1.00	0.5051	
53 Trichloroethene	95	9.130	9.130	0.000	79	6639	1.00	0.6395	
54 n-Butanol	56	9.368	9.368	0.000	37	996	25.0	15.1	
55 Dibromomethane	93	9.549	9.549	0.000	55	2175	1.00	0.5861	
124 Ethyl acrylate	55		9.577				ND	ND	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	83	4734	1.00	0.5595	
57 Dichlorobromomethane	83	9.661	9.661	0.000	97	6616	1.00	0.6262	
58 Methyl methacrylate	69		9.759				ND	ND	
59 1,4-Dioxane	88		9.842				ND	ND	
60 2-Chloroethyl vinyl ether	63		10.136				ND	ND	
61 cis-1,3-Dichloropropene	75	10.234	10.233	0.001	94	5600	1.00	0.4622	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	92	21899	1.00	0.7130	
63 Toluene	92	10.443	10.443	0.000	96	10489	1.00	0.4438	
64 2-Nitropropane	43	10.666	10.666	0.000	41	909	2.00	2.11	
66 4-Methyl-2-pentanone (MIBK	43		10.750				ND	ND	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	74	4729	1.00	0.4834	
65 Tetrachloroethene	164	10.806	10.806	0.000	94	5286	1.00	0.5940	
69 Ethyl methacrylate	69		10.890				ND	ND	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	88	3117	1.00	0.6762	
70 Chlorodibromomethane	129	11.141	11.141	0.000	84	3816	1.00	0.6108	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	90	5479	1.00	0.5633	
119 n-Butyl acetate	43		11.365				ND	ND	
72 Ethylene Dibromide	107	11.393	11.393	0.000	41	2768	1.00	0.5598	
74 2-Hexanone	43	11.504	11.490	0.014	60	3223	1.00	1.37	
S 73 1,3-Dichloropropene, Total	75				0			0.9456	
75 1-Chlorohexane	91	11.756	11.756	0.000	90	4555	1.00	1.99	
78 Ethylbenzene	91	11.826	11.826	0.000	46	28684	1.00	0.6195	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	86	1224044	50.0	50.0	
77 Chlorobenzene	112	11.840	11.840	0.000	92	17484	1.00	0.6945	
79 1,1,1,2-Tetrachloroethane	131	11.882	11.881	0.001	88	5621	1.00	0.6676	
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	96	7364	1.00	0.4248	
82 o-Xylene	106	12.356	12.356	0.000	96	5713	1.00	0.3827	
83 Styrene	104	12.398	12.398	0.000	91	7255	1.00	0.3079	
84 Bromoform	173		12.468				ND	ND	
85 Isopropylbenzene	105	12.622	12.622	0.000	95	15999	1.00	0.3937	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	93	7301	1.00	0.7604	
88 N-Propylbenzene	91	13.013	13.013	0.000	99	18345	1.00	0.3884	
87 Bromobenzene	156	13.055	13.055	0.000	89	5316	1.00	0.5794	
89 1,1,2,2-Tetrachloroethane	83		13.083				ND	ND	
91 1,3,5-Trimethylbenzene	105	13.180	13.180	0.000	93	10204	1.00	0.3139	
90 2-Chlorotoluene	91	13.194	13.194	0.000	95	12607	1.00	0.3898	
92 1,2,3-Trichloropropane	110		13.236				ND	ND	
93 trans-1,4-Dichloro-2-buten	53		13.250				ND	ND	
94 Cyclohexanone	55		13.320				ND	ND	
95 4-Chlorotoluene	91	13.348	13.348	0.000	97	11516	1.00	0.4074	
96 tert-Butylbenzene	119	13.502	13.502	0.000	94	9288	1.00	0.3126	
97 1,2,4-Trimethylbenzene	105	13.557	13.557	0.000	96	9934	1.00	0.2950	
98 sec-Butylbenzene	105	13.669	13.669	0.000	94	15184	1.00	0.3273	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	96	11147	1.00	0.2939	
100 1,3-Dichlorobenzene	146	13.921	13.935	-0.013	95	10425	1.00	0.5605	
120 1,2,3-Trimethylbenzene	105	13.990	13.990	0.000	45	17973	1.00	0.5494	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.990	0.000	96	581994	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.004	14.004	0.000	86	14382	1.00	0.7574	
103 n-Butylbenzene	134	14.200	14.200	0.000	94	4346	1.00	0.4310	
121 Benzyl chloride	126	14.228	14.228	0.000	49	1052	1.00	0.4506	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	94	9407	1.00	0.5980	
106 n-Nonyl Aldehyde	57		15.150				ND	ND	
105 1,2-Dibromo-3-Chloropropan	157		15.219				ND	ND	
107 1,3,5-Trichlorobenzene	180	15.233	15.233	0.000	96	9157	1.00	0.5921	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	92	6187	1.00	0.6801	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	89	6582	1.00	0.5480	
110 Naphthalene	128		16.239				ND	ND	
111 1,2,3-Trichlorobenzene	180	16.435	16.434	0.000	95	5281	1.00	0.5507	
S 112 Xylenes, Total	106				0			0.8075	
S 113 Trihalomethanes, Total	1				0			1.92	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

8260 Surr 25_00066

Amount Added: 0.20

Units: uL

8260 NewWkMix_00188

Amount Added: 0.20

Units: uL

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6158.D

Injection Date: 20-Oct-2016 11:15:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: IC

Worklist Smp#: 5

Client ID:

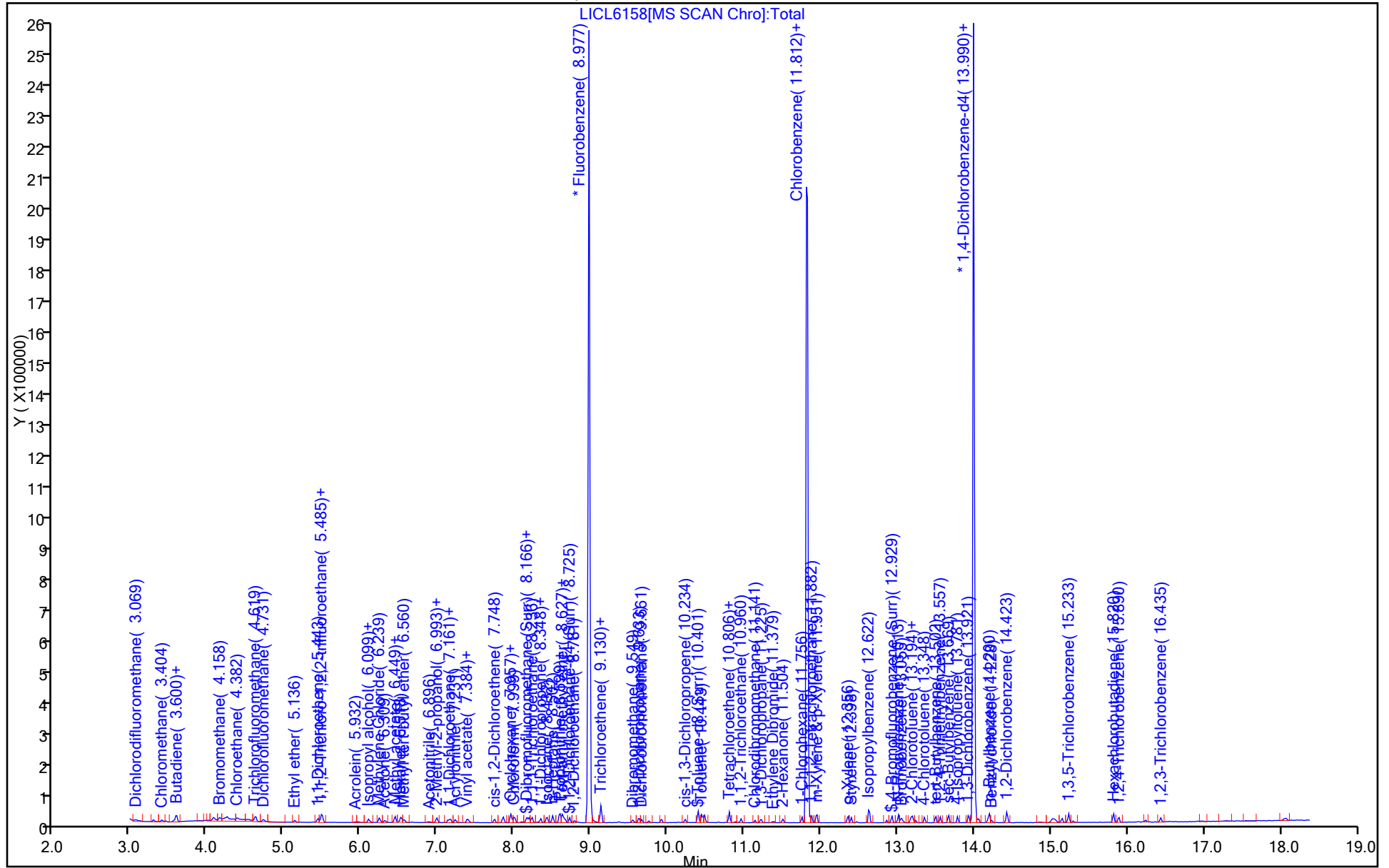
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6159.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 20-Oct-2016 11:41:30 ALS Bottle#: 3 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: .5
 Operator ID: ADB Instrument ID: VMSL
 Sublist: chrom-5mL-8260_VMSL*sub1
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 21-Oct-2016 09:28:43 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN

Process Host: XAWRK039

First Level Reviewer: buettnera

Date: 20-Oct-2016 14:13:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.069	3.069	0.000	98	19341	2.50	-1.01	M
2 1,2-Dichloro-1,1,2,2-tetra	135	3.292	3.292	0.000	56	8170	2.50	1.27	
3 Chloromethane	50	3.404	3.404	0.000	99	18654	2.50	1.55	
4 Vinyl chloride	62	3.558	3.558	0.000	95	17574	2.50	1.39	
122 Butadiene	39	3.586	3.599	-0.013	88	18042	2.50	1.52	
5 Bromomethane	94	4.158	4.158	0.000	93	14513	2.50	2.16	
6 Chloroethane	64	4.396	4.382	0.014	98	13152	2.50	-6.47	
7 Trichlorofluoromethane	101	4.633	4.619	0.014	99	26967	2.50	1.58	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	99	29788	2.50	1.56	
8 Ethyl ether	74	5.136	5.136	0.000	88	4648	2.50	1.20	
11 Ethanol	45	5.373	5.373	0.000	43	2388	100.0	59.2	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	97	11935	2.50	1.32	
10 Carbon disulfide	76	5.485	5.485	0.000	99	46220	2.50	1.37	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	89	12998	2.50	1.51	
13 Iodomethane	142	5.667	5.653	0.014	51	2135	2.50	3.88	
S 26 1,2-Dichloroethene, Total	96				0			2.37	
14 Acrolein	56	5.932	5.918	0.014	94	3018	12.5	6.00	
15 3-Chloro-1-propene	39	6.100	6.099	0.001	91	11195	2.50	1.20	
16 Isopropyl alcohol	45	6.128	6.127	0.001	44	3159	25.0	14.9	
17 Methylene Chloride	84	6.239	6.239	0.000	90	12944	2.50	1.50	
18 Acetone	43	6.309	6.309	0.000	99	9609	2.50	2.42	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	98	12192	2.50	1.27	
20 Methyl acetate	74	6.449	6.449	0.000	97	4545	12.5	6.66	
21 Hexane	86	6.533	6.532	0.001	80	2436	2.50	0.7282	
22 Methyl tert-butyl ether	73	6.560	6.560	0.000	85	16916	2.50	1.04	
24 Acetonitrile	41	6.882	6.882	0.000	98	8445	25.0	18.8	
25 Isopropyl ether	45	6.993	6.993	0.000	83	18985	2.50	0.9230	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	29	2569	25.0	9.87	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	90	12083	2.50	0.8572	
28 1,1-Dichloroethane	63	7.161	7.175	-0.014	96	23332	2.50	1.37	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.231	7.231	0.000	98	16698	25.0	12.0	
30 Tert-butyl ethyl ether	59	7.398	7.384	0.014	91	16871	2.50	0.8900	
31 Vinyl acetate	43	7.412	7.412	0.000	97	10500	2.50	0.9221	
32 cis-1,2-Dichloroethene	96	7.748	7.747	0.001	80	10312	2.50	1.10	
33 2,2-Dichloropropane	77	7.859	7.859	0.000	90	21584	2.50	1.38	
35 Chlorobromomethane	128	7.957	7.957	0.000	77	4701	2.50	1.36	
34 Cyclohexane	84	7.957	7.957	0.000	88	13654	2.50	0.8285	
36 Chloroform	83	8.013	8.013	0.000	93	23721	2.50	1.45	
39 Ethyl acetate	45	8.097	8.097	0.000	80	991	5.00	1.95	
37 Carbon tetrachloride	117	8.167	8.166	0.001	97	20565	2.50	1.41	
38 Tetrahydrofuran	71	8.195	8.180	0.015	36	1077	5.00	2.53	
\$ 41 Dibromofluoromethane (Surr	113	8.195	8.194	0.001	95	17164	2.50	2.48	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	98	22714	2.50	1.39	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	96	3937	2.50	2.21	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	95	14448	2.50	1.05	
125 Isooctane	57	8.432	8.432	0.000	97	33664	2.50	0.8414	
117 n-Heptane	43	8.502	8.502	0.000	82	13713	2.50	0.8436	
44 Benzene	78	8.600	8.599	0.001	95	53069	2.50	1.36	
45 Propionitrile	54	8.614	8.613	0.001	90	7313	25.0	13.4	
46 Methacrylonitrile	41	8.627	8.627	0.000	91	29985	25.0	11.3	
48 Tert-amyl methyl ether	73	8.669	8.655	0.014	93	15811	2.50	0.9064	
50 Isobutyl alcohol	42	8.725	8.725	0.000	44	2553	62.5	27.0	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	93	21358	2.50	2.84	
49 1,2-Dichloroethane	62	8.795	8.795	0.000	97	13930	2.50	1.54	
* 51 Fluorobenzene	96	8.977	8.976	0.001	99	1782360	50.0	50.0	
52 Methylcyclohexane	55	9.130	9.130	0.000	89	15831	2.50	1.09	
53 Trichloroethene	95	9.130	9.130	0.000	80	13844	2.50	1.34	
54 n-Butanol	56	9.368	9.368	0.000	85	2558	62.5	33.7	
55 Dibromomethane	93	9.549	9.549	0.000	92	4762	2.50	1.29	
124 Ethyl acrylate	55	9.577	9.577	0.000	1	4244	2.50	3.59	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	90	10747	2.50	1.27	
57 Dichlorobromomethane	83	9.661	9.661	0.000	98	13908	2.50	1.32	
58 Methyl methacrylate	69	9.759	9.759	0.000	89	5092	5.00	6.77	
59 1,4-Dioxane	88	9.849	9.842	0.007	1	0	50.0	0	
60 2-Chloroethyl vinyl ether	63	10.136	10.136	0.000	80	1823	2.50	3.66	
61 cis-1,3-Dichloropropene	75	10.234	10.233	0.001	93	12060	2.50	1.00	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	56506	2.50	1.86	
63 Toluene	92	10.443	10.443	0.000	97	22867	2.50	0.9801	
64 2-Nitropropane	43	10.667	10.666	0.001	68	1928	5.00	3.27	
66 4-Methyl-2-pentanone (MIBK	43	10.750	10.750	0.000	41	2726	2.50	1.71	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	76	9741	2.50	1.01	
65 Tetrachloroethene	164	10.806	10.806	0.000	96	11057	2.50	1.26	
69 Ethyl methacrylate	69	10.890	10.890	0.000	28	4063	2.50	4.03	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	90	6152	2.50	1.35	
70 Chlorodibromomethane	129	11.141	11.141	0.000	87	7855	2.50	1.27	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	91	11859	2.50	1.24	
119 n-Butyl acetate	43	11.365	11.365	0.000	94	4565	2.50	4.36	
72 Ethylene Dibromide	107	11.393	11.393	0.000	95	5903	2.50	1.21	
74 2-Hexanone	43	11.505	11.490	0.015	69	4164	2.50	1.79	
S 73 1,3-Dichloropropene, Total	75				0			2.01	
75 1-Chlorohexane	91	11.756	11.756	0.000	91	9040	2.50	2.30	
78 Ethylbenzene	91	11.826	11.826	0.000	86	55775	2.50	1.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	92	1208236	50.0	50.0	
77 Chlorobenzene	112	11.840	11.840	0.000	94	34433	2.50	1.39	
79 1,1,1,2-Tetrachloroethane	131	11.882	11.881	0.001	88	10978	2.50	1.32	
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	97	16803	2.50	0.9821	
82 o-Xylene	106	12.356	12.356	0.000	96	11602	2.50	0.7873	
83 Styrene	104	12.398	12.398	0.000	93	15976	2.50	0.6869	
84 Bromoform	173	12.468	12.468	0.000	90	4048	2.50	1.19	
85 Isopropylbenzene	105	12.622	12.622	0.000	97	32814	2.50	0.7971	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	93	17819	2.50	1.83	
88 N-Propylbenzene	91	13.013	13.013	0.000	98	38814	2.50	0.8112	
87 Bromobenzene	156	13.055	13.055	0.000	90	10735	2.50	1.16	
89 1,1,2,2-Tetrachloroethane	83	13.083	13.083	0.000	34	8349	2.50	1.47	
91 1,3,5-Trimethylbenzene	105	13.180	13.180	0.000	93	22826	2.50	0.6932	
90 2-Chlorotoluene	91	13.194	13.194	0.000	96	28739	2.50	0.8771	
92 1,2,3-Trichloropropane	110	13.236	13.236	0.000	84	2477	2.50	1.40	
93 trans-1,4-Dichloro-2-buten	53	13.250	13.250	0.000	1	1602	2.50	1.08	
94 Cyclohexanone	55	13.320	13.320	0.000	1	1190	25.0	-20.1	
95 4-Chlorotoluene	91	13.348	13.348	0.000	97	24174	2.50	0.8442	
96 tert-Butylbenzene	119	13.502	13.502	0.000	94	21421	2.50	0.7116	
97 1,2,4-Trimethylbenzene	105	13.558	13.557	0.001	97	23103	2.50	0.6773	
98 sec-Butylbenzene	105	13.669	13.669	0.000	94	35152	2.50	0.7481	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	96	25551	2.50	0.6650	
100 1,3-Dichlorobenzene	146	13.921	13.935	-0.013	96	21899	2.50	1.16	
120 1,2,3-Trimethylbenzene	105	13.991	13.990	0.001	58	35878	2.50	1.08	
* 101 1,4-Dichlorobenzene-d4	152	13.991	13.990	0.001	96	589541	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.004	14.004	0.000	94	28257	2.50	1.47	
103 n-Butylbenzene	134	14.200	14.200	0.000	96	8157	2.50	0.7987	
121 Benzyl chloride	126	14.228	14.228	0.000	50	2160	2.50	0.9134	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	95	19768	2.50	1.24	
106 n-Nonyl Aldehyde	57	15.150	15.150	0.000	54	2628	2.50	9.92	
105 1,2-Dibromo-3-Chloropropan	157	15.220	15.219	0.001	1	1060	2.50	1.04	
107 1,3,5-Trichlorobenzene	180	15.234	15.233	0.001	97	17472	2.50	1.12	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	96	11667	2.50	1.27	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	92	12489	2.50	1.03	
110 Naphthalene	128	16.239	16.239	0.000	96	12412	2.50	1.72	
111 1,2,3-Trichlorobenzene	180	16.435	16.434	0.001	93	11467	2.50	1.18	
S 112 Xylenes, Total	106				0			1.77	
S 113 Trihalomethanes, Total	1				0			5.23	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 Surr 25_00066

Amount Added: 0.50

Units: uL

8260 NewWkMix_00188

Amount Added: 0.50

Units: uL

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

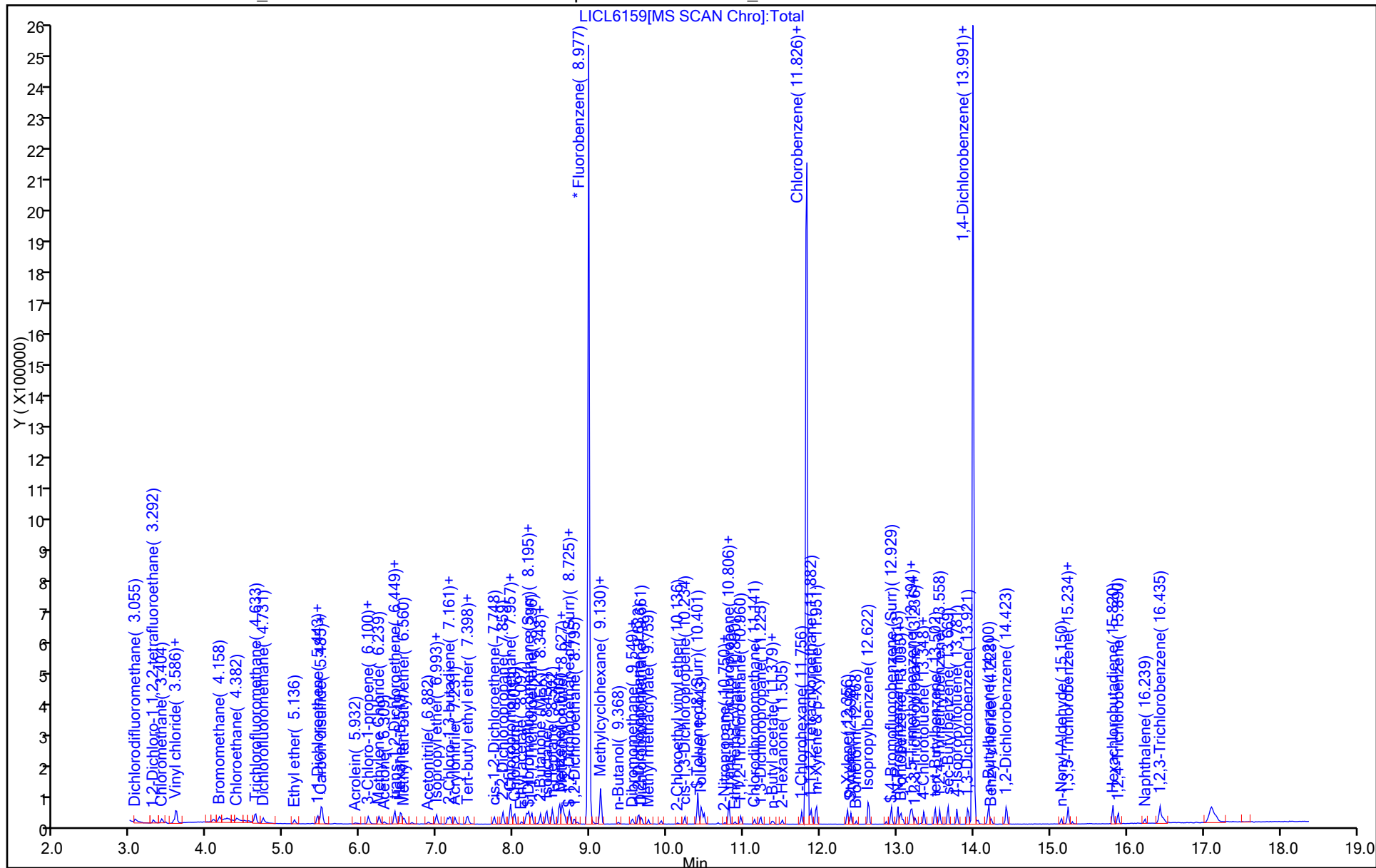
Operator ID: ADB

Worklist Smp#: 6

Client ID:

ALS Bottle#: 3

Limit Group: MSV-8260 DoD



TestAmerica St. Louis

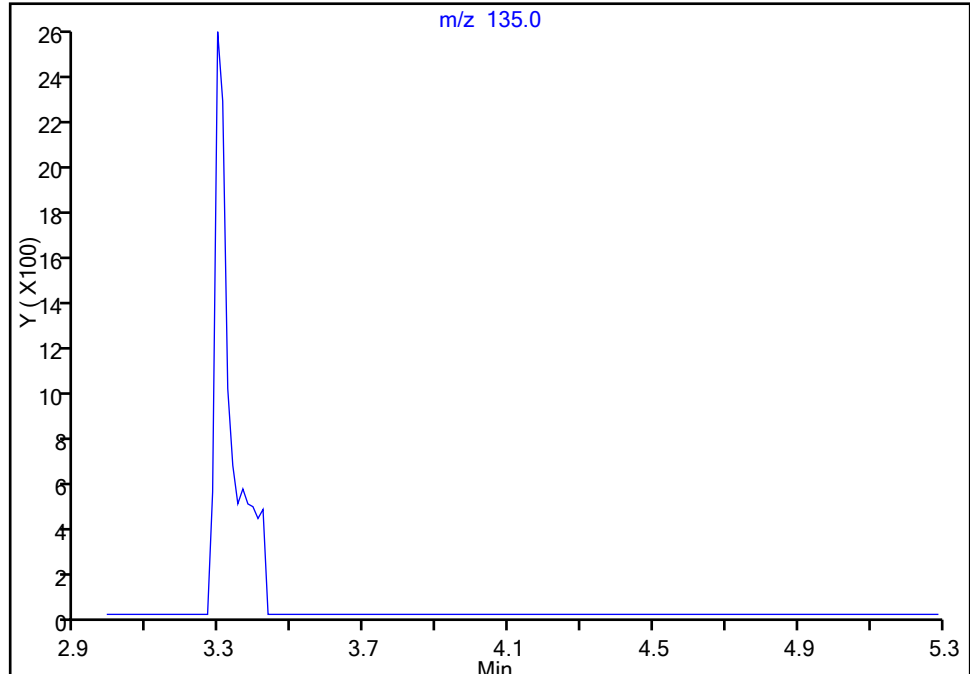
Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6159.D
Injection Date: 20-Oct-2016 11:41:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: ADB ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

2 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Signal: 1

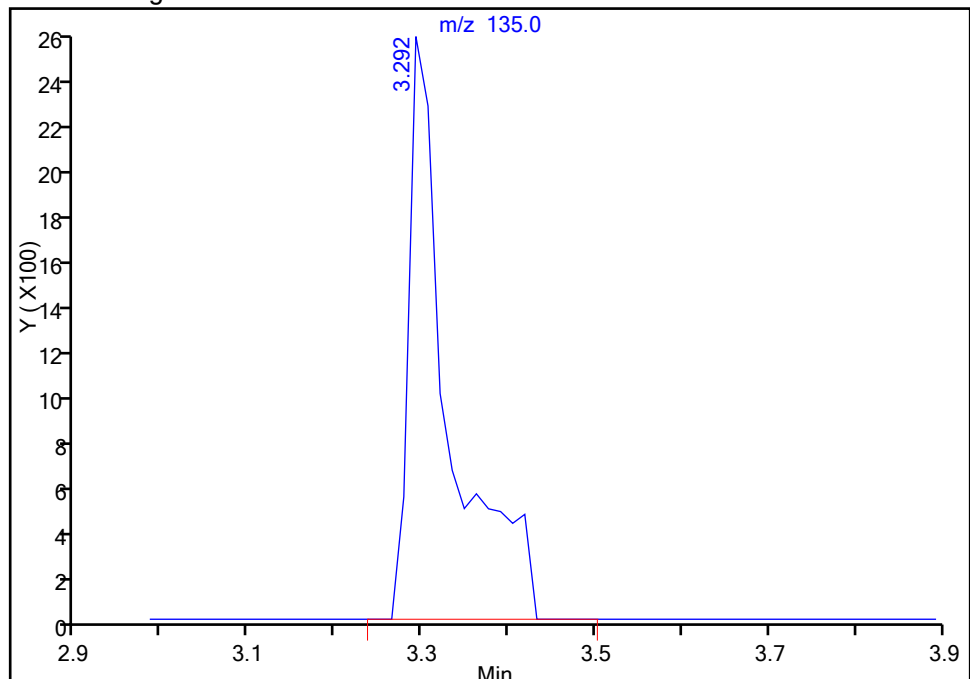
Not Detected
Expected RT: 3.29

Processing Integration Results



RT: 3.29
Area: 8170
Amount: 1.273896
Amount Units: ug/l

Manual Integration Results



Reviewer: buettnera, 20-Oct-2016 14:13:39

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

TestAmerica St. Louis

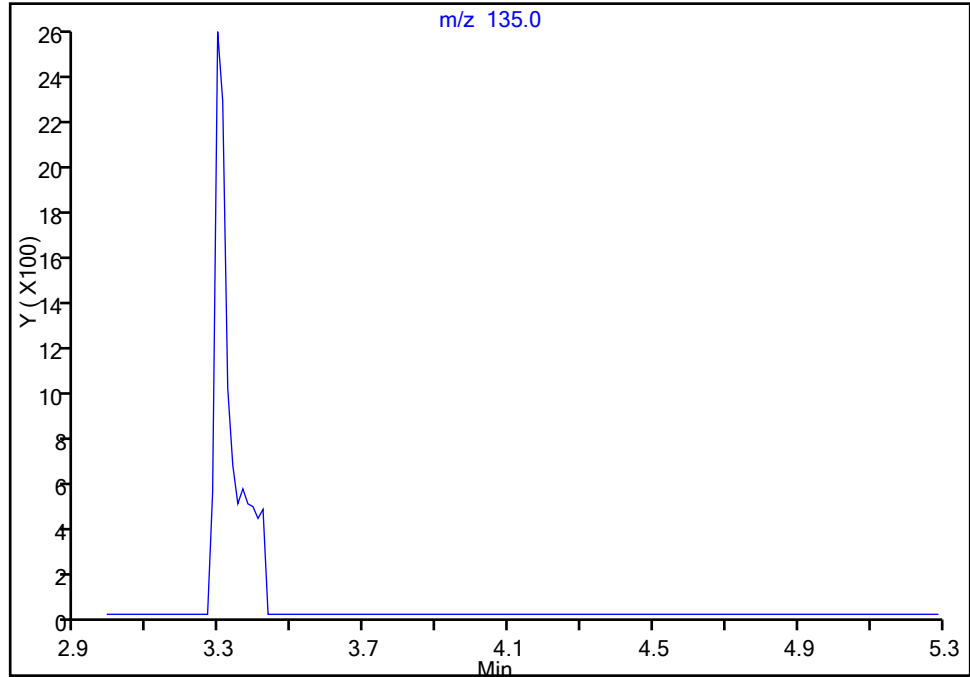
Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6159.D
Injection Date: 20-Oct-2016 11:41:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: ADB ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

2 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

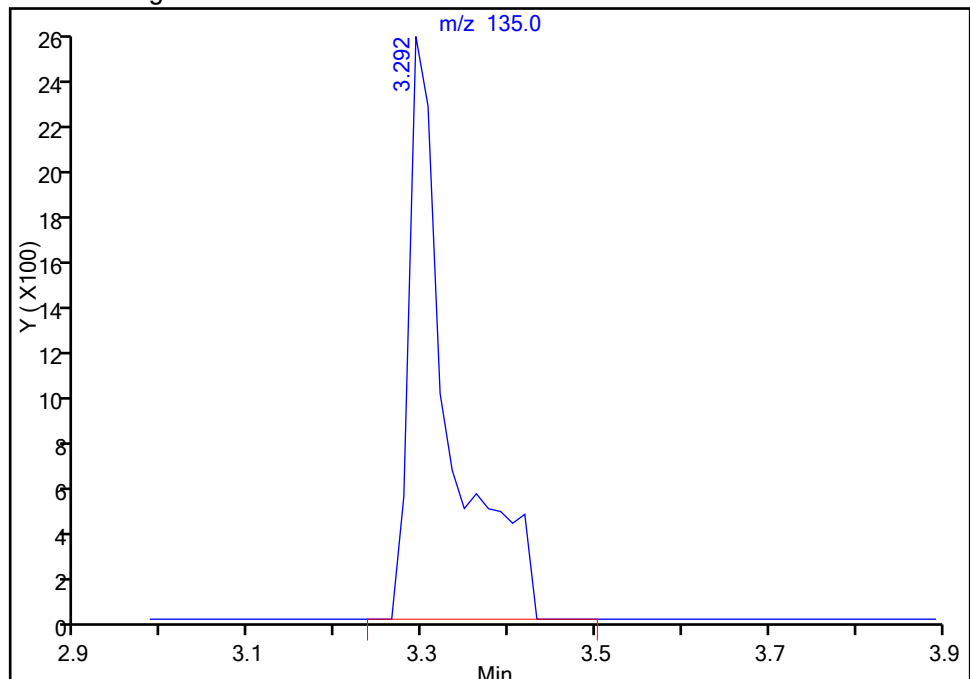
Signal: 1

Not Detected
Expected RT: 3.29

Processing Integration Results



Manual Integration Results



RT: 3.29
Area: 8170
Amount: 1.273896
Amount Units: ug/l

Reviewer: buettnera, 20-Oct-2016 14:13:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6160.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 20-Oct-2016 12:06:30 ALS Bottle#: 4 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Operator ID: ADB Instrument ID: VMSL
 Sublist: chrom-5mL-8260_VMSL*sub1
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 21-Oct-2016 09:28:45 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK039

First Level Reviewer: buettnera Date: 20-Oct-2016 14:12:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.069	3.069	0.000	99	77632	5.00	4.53	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.292	3.292	0.000	99	38563	5.00	5.82	
3 Chloromethane	50	3.404	3.404	0.000	98	73103	5.00	5.87	
4 Vinyl chloride	62	3.572	3.558	0.014	98	72576	5.00	5.56	
122 Butadiene	39	3.586	3.599	-0.013	95	67320	5.00	5.48	
5 Bromomethane	94	4.158	4.158	0.000	92	42313	5.00	6.09	
6 Chloroethane	64	4.396	4.382	0.014	99	52681	5.00	1.43	
7 Trichlorofluoromethane	101	4.633	4.619	0.014	99	106041	5.00	6.01	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	99	117365	5.00	5.95	
8 Ethyl ether	74	5.136	5.136	0.000	87	18937	5.00	4.72	
11 Ethanol	45	5.373	5.373	0.000	98	9182	200.0	220.6	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	97	46690	5.00	5.01	
10 Carbon disulfide	76	5.485	5.485	0.000	99	188256	5.00	5.40	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	90	50700	5.00	5.71	
13 Iodomethane	142	5.667	5.653	0.014	95	14888	5.00	6.14	
S 26 1,2-Dichloroethene, Total	96				0			9.89	
14 Acrolein	56	5.932	5.918	0.014	95	11480	25.0	22.1	
15 3-Chloro-1-propene	39	6.099	6.099	0.000	89	47356	5.00	4.92	
16 Isopropyl alcohol	45	6.127	6.127	0.000	95	10632	50.0	48.5	
17 Methylene Chloride	84	6.239	6.239	0.000	89	50323	5.00	5.66	
18 Acetone	43	6.309	6.309	0.000	99	12711	5.00	5.07	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	99	50436	5.00	5.10	
20 Methyl acetate	74	6.449	6.449	0.000	97	18209	25.0	25.9	
21 Hexane	86	6.532	6.532	0.000	92	14625	5.00	4.23	
22 Methyl tert-butyl ether	73	6.560	6.560	0.000	89	79237	5.00	4.71	
24 Acetonitrile	41	6.882	6.882	0.000	98	26394	50.0	57.0	
25 Isopropyl ether	45	6.993	6.993	0.000	86	88903	5.00	4.19	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	31	11798	50.0	43.9	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	91	61640	5.00	4.24	
28 1,1-Dichloroethane	63	7.175	7.175	0.000	96	97054	5.00	5.52	
29 Acrylonitrile	53	7.231	7.231	0.000	99	73239	50.0	51.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.398	7.384	0.014	94	84469	5.00	4.32	
31 Vinyl acetate	43	7.412	7.412	0.000	97	54217	5.00	4.61	
32 cis-1,2-Dichloroethene	96	7.748	7.747	0.001	79	46356	5.00	4.79	
33 2,2-Dichloropropane	77	7.859	7.859	0.000	90	85047	5.00	5.26	
35 Chlorobromomethane	128	7.957	7.957	0.000	68	20119	5.00	5.63	
34 Cyclohexane	84	7.957	7.957	0.000	90	72517	5.00	4.26	
36 Chloroform	83	8.013	8.013	0.000	93	95763	5.00	5.65	
39 Ethyl acetate	45	8.097	8.097	0.000	99	5184	10.0	9.86	
37 Carbon tetrachloride	117	8.167	8.166	0.000	97	83937	5.00	5.58	
38 Tetrahydrofuran	71	8.194	8.180	0.014	50	3495	10.0	7.94	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.194	0.000	95	34861	5.00	4.88	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	98	93294	5.00	5.52	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	98	10865	5.00	5.91	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	98	65170	5.00	4.60	
125 Isooctane	57	8.432	8.432	0.000	98	177605	5.00	4.30	
117 n-Heptane	43	8.502	8.502	0.000	86	72828	5.00	4.34	
44 Benzene	78	8.599	8.599	0.000	95	217818	5.00	5.40	
45 Propionitrile	54	8.613	8.613	0.000	93	31151	50.0	55.5	
46 Methacrylonitrile	41	8.627	8.627	0.000	93	147745	50.0	53.8	
48 Tert-amyl methyl ether	73	8.669	8.655	0.014	95	87217	5.00	4.84	
50 Isobutyl alcohol	42	8.725	8.725	0.000	59	11427	125.0	117.0	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	93	43200	5.00	5.57	
49 1,2-Dichloroethane	62	8.795	8.795	0.000	98	53907	5.00	5.76	
* 51 Fluorobenzene	96	8.977	8.976	0.001	99	1840378	50.0	50.0	
52 Methylcyclohexane	55	9.130	9.130	0.000	90	72167	5.00	4.81	
53 Trichloroethene	95	9.130	9.130	0.000	72	58790	5.00	5.50	
54 n-Butanol	56	9.368	9.368	0.000	93	9584	125.0	113.0	
55 Dibromomethane	93	9.549	9.549	0.000	96	21242	5.00	5.56	
124 Ethyl acrylate	55	9.563	9.577	-0.014	99	18498	5.00	6.00	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	91	44506	5.00	5.11	
57 Dichlorobromomethane	83	9.661	9.661	0.000	99	59304	5.00	5.45	
58 Methyl methacrylate	69	9.759	9.759	0.000	88	24079	10.0	11.6	
59 1,4-Dioxane	88	9.842	9.842	0.000	90	3786	100.0	84.1	
60 2-Chloroethyl vinyl ether	63	10.136	10.136	0.000	91	9227	5.00	5.95	
61 cis-1,3-Dichloropropene	75	10.234	10.233	0.001	95	54896	5.00	4.40	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	130803	5.00	4.02	
63 Toluene	92	10.443	10.443	0.000	98	113862	5.00	4.55	
64 2-Nitropropane	43	10.666	10.666	0.000	92	9616	10.0	11.1	
66 4-Methyl-2-pentanone (MIBK	43	10.750	10.750	0.000	94	13673	5.00	5.13	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	77	44590	5.00	4.31	
65 Tetrachloroethene	164	10.806	10.806	0.000	97	47400	5.00	5.03	
69 Ethyl methacrylate	69	10.890	10.890	0.000	87	21265	5.00	6.11	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	93	26435	5.00	5.42	
70 Chlorodibromomethane	129	11.141	11.141	0.000	91	32815	5.00	4.96	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	91	50875	5.00	4.94	
119 n-Butyl acetate	43	11.365	11.365	0.000	93	19255	5.00	6.31	
72 Ethylene Dibromide	107	11.393	11.393	0.000	98	25794	5.00	4.93	
74 2-Hexanone	43	11.490	11.490	0.000	94	11749	5.00	4.70	
S 73 1,3-Dichloropropene, Total	75				0			8.71	
75 1-Chlorohexane	91	11.756	11.756	0.000	93	48617	5.00	4.77	
78 Ethylbenzene	91	11.826	11.826	0.000	59	250096	5.00	5.10	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	86	1295350	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	11.840	11.840	0.000	92	145150	5.00	5.45	
79 1,1,1,2-Tetrachloroethane	131	11.882	11.881	0.001	94	48467	5.00	5.44	
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	97	80198	5.00	4.37	
82 o-Xylene	106	12.356	12.356	0.000	96	59302	5.00	3.75	
83 Styrene	104	12.398	12.398	0.000	92	96056	5.00	3.85	
84 Bromoform	173	12.468	12.468	0.000	95	18950	5.00	5.13	
85 Isopropylbenzene	105	12.622	12.622	0.000	96	185012	5.00	4.13	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	92	41395	5.00	3.91	
88 N-Propylbenzene	91	13.013	13.013	0.000	98	217135	5.00	4.17	
87 Bromobenzene	156	13.055	13.055	0.000	89	52372	5.00	5.18	
89 1,1,2,2-Tetrachloroethane	83	13.083	13.083	0.000	97	34449	5.00	5.59	
91 1,3,5-Trimethylbenzene	105	13.180	13.180	0.000	93	142995	5.00	3.99	
90 2-Chlorotoluene	91	13.194	13.194	0.000	96	173760	5.00	4.87	
92 1,2,3-Trichloropropane	110	13.236	13.236	0.000	86	10762	5.00	5.60	
93 trans-1,4-Dichloro-2-buten	53	13.250	13.250	0.000	91	8332	5.00	5.18	
94 Cyclohexanone	55	13.320	13.320	0.000	85	5848	50.0	26.4	
95 4-Chlorotoluene	91	13.348	13.348	0.000	99	140812	5.00	4.52	
96 tert-Butylbenzene	119	13.502	13.502	0.000	94	133744	5.00	4.08	
97 1,2,4-Trimethylbenzene	105	13.557	13.557	0.000	98	158349	5.00	4.27	
98 sec-Butylbenzene	105	13.669	13.669	0.000	94	229388	5.00	4.49	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	97	167801	5.00	4.01	
100 1,3-Dichlorobenzene	146	13.935	13.935	0.001	98	105466	5.00	5.14	
120 1,2,3-Trimethylbenzene	105	13.990	13.990	0.000	72	175821	5.00	4.88	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.990	0.000	97	641616	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.004	14.004	0.000	95	116637	5.00	5.57	
103 n-Butylbenzene	134	14.200	14.200	0.000	96	44976	5.00	4.05	
121 Benzyl chloride	126	14.228	14.228	0.000	80	11786	5.00	4.58	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	97	86270	5.00	4.97	
106 n-Nonyl Aldehyde	57	15.150	15.150	0.000	79	8141	5.00	11.1	
105 1,2-Dibromo-3-Chloropropan	157	15.219	15.219	0.000	77	4928	5.00	4.46	
107 1,3,5-Trichlorobenzene	180	15.233	15.233	0.000	96	81677	5.00	4.79	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	96	50521	5.00	5.04	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	94	58073	5.00	4.39	
110 Naphthalene	128	16.239	16.239	0.000	97	57972	5.00	4.55	
111 1,2,3-Trichlorobenzene	180	16.435	16.434	0.000	95	47430	5.00	4.49	
S 112 Xylenes, Total	106				0			8.13	
S 113 Trihalomethanes, Total	1				0			21.2	

Reagents:

8260 Surr 25_00066

Amount Added: 1.00

Units: uL

8260 NewWkMix_00188

Amount Added: 1.00

Units: uL

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6160.D

Injection Date: 20-Oct-2016 12:06:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: IC

Worklist Smp#: 7

Client ID:

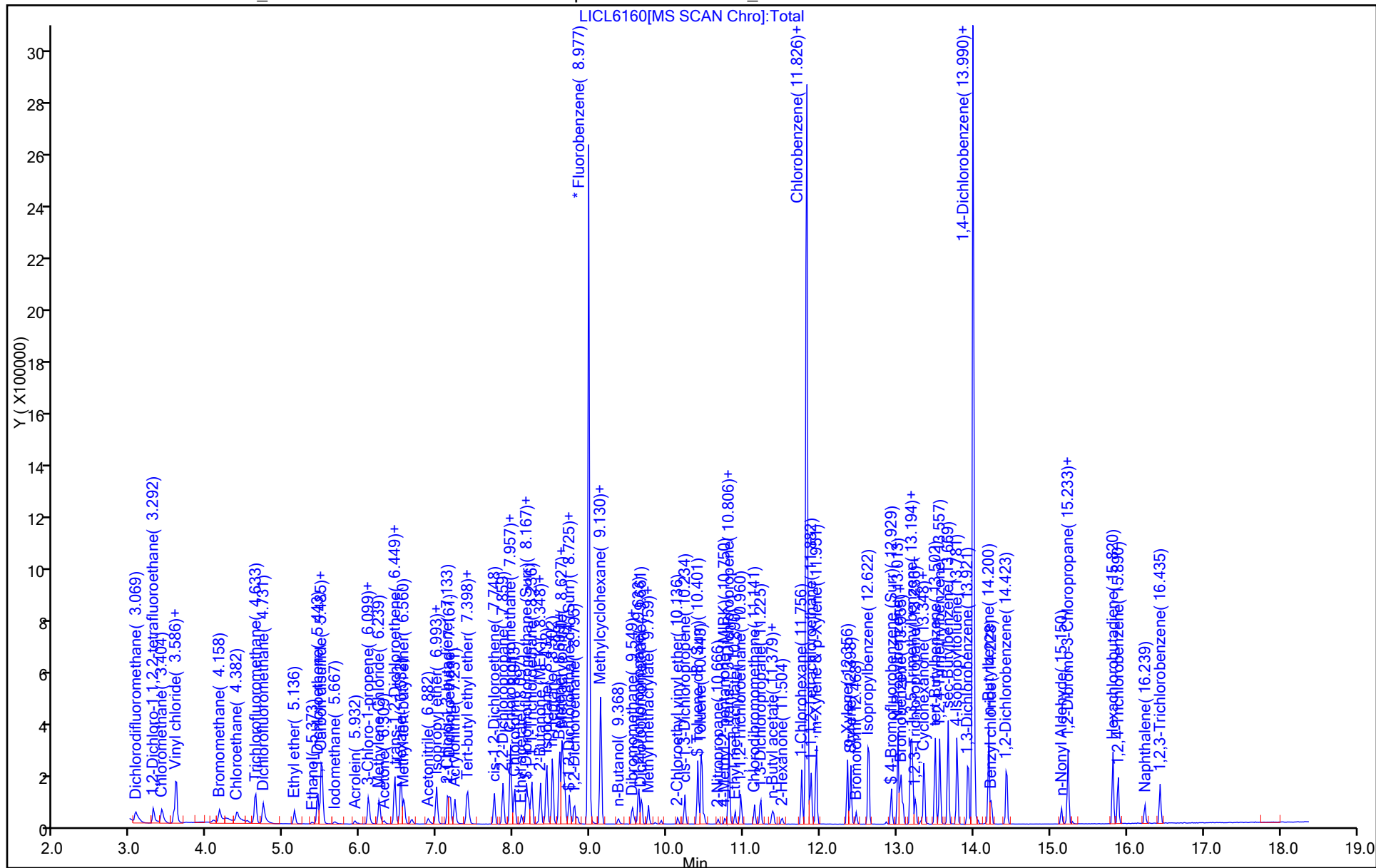
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6162.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 20-Oct-2016 12:56:30 ALS Bottle#: 6 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Operator ID: ADB Instrument ID: VMSL
 Sublist: chrom-5mL-8260_VMSL*sub1
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 21-Oct-2016 09:28:49 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK039

First Level Reviewer: buettnera Date: 20-Oct-2016 14:11:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.069	3.069	0.000	99	286851	20.0	23.2	M
2 1,2-Dichloro-1,1,2,2-tetra	135	3.292	3.292	0.000	99	143974	20.0	20.7	
3 Chloromethane	50	3.404	3.404	0.000	99	252787	20.0	19.3	
4 Vinyl chloride	62	3.572	3.558	0.014	98	277294	20.0	20.2	
122 Butadiene	39	3.599	3.599	0.000	89	271180	20.0	21.0	
5 Bromomethane	94	4.158	4.158	0.000	92	153779	20.0	21.0	
6 Chloroethane	64	4.382	4.382	0.000	100	186127	20.0	24.6	
7 Trichlorofluoromethane	101	4.633	4.619	0.014	99	401866	20.0	21.7	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	100	437947	20.0	21.1	
8 Ethyl ether	74	5.136	5.136	0.000	90	82149	20.0	19.4	
11 Ethanol	45	5.373	5.373	0.000	98	34553	800.0	788.9	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	97	193255	20.0	19.7	
10 Carbon disulfide	76	5.485	5.485	0.000	100	743663	20.0	20.3	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	90	192231	20.0	20.6	
13 Iodomethane	142	5.667	5.653	0.013	99	87478	20.0	18.0	
S 26 1,2-Dichloroethene, Total	96				0			39.1	
14 Acrolein	56	5.932	5.918	0.014	99	50539	100.0	92.5	
15 3-Chloro-1-propene	39	6.099	6.099	0.000	91	205939	20.0	20.3	
16 Isopropyl alcohol	45	6.127	6.127	0.000	96	46817	200.0	203.2	
17 Methylene Chloride	84	6.239	6.239	0.000	90	186754	20.0	19.9	
18 Acetone	43	6.309	6.309	0.000	99	32260	20.0	22.1	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	99	204594	20.0	19.7	
20 Methyl acetate	74	6.449	6.449	0.000	97	74827	100.0	101.0	
21 Hexane	86	6.532	6.532	0.000	93	72194	20.0	19.9	
22 Methyl tert-butyl ether	73	6.560	6.560	0.000	90	357607	20.0	20.2	
24 Acetonitrile	41	6.882	6.882	0.000	99	100263	200.0	205.8	
25 Isopropyl ether	45	6.993	6.993	0.000	91	423819	20.0	19.0	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	33	54500	200.0	192.7	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	91	301656	20.0	19.7	
28 1,1-Dichloroethane	63	7.175	7.175	0.000	95	377208	20.0	20.4	
29 Acrylonitrile	53	7.231	7.231	0.000	98	313850	200.0	207.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.384	7.384	0.000	95	398497	20.0	19.4	
31 Vinyl acetate	43	7.412	7.412	0.000	97	249425	20.0	20.2	
32 cis-1,2-Dichloroethene	96	7.747	7.747	0.000	79	197995	20.0	19.4	
33 2,2-Dichloropropane	77	7.859	7.859	0.000	88	343107	20.0	20.2	
35 Chlorobromomethane	128	7.957	7.957	0.000	58	75119	20.0	20.0	
34 Cyclohexane	84	7.957	7.957	0.000	89	351776	20.0	19.6	
36 Chloroform	83	8.013	8.013	0.000	93	364306	20.0	20.4	
39 Ethyl acetate	45	8.097	8.097	0.000	99	22001	40.0	39.8	
37 Carbon tetrachloride	117	8.166	8.166	0.000	97	323265	20.0	20.4	
38 Tetrahydrofuran	71	8.194	8.180	0.014	85	16989	40.0	36.7	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.194	0.000	95	152751	20.0	20.3	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	98	360803	20.0	20.3	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	99	38449	20.0	19.9	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	98	290189	20.0	19.5	
125 Isooctane	57	8.432	8.432	0.000	100	881898	20.0	20.3	
117 n-Heptane	43	8.502	8.502	0.000	91	364061	20.0	20.6	
44 Benzene	78	8.599	8.599	0.000	96	851759	20.0	20.1	
45 Propionitrile	54	8.613	8.613	0.000	93	122756	200.0	207.7	
46 Methacrylonitrile	41	8.627	8.627	0.000	92	617824	200.0	213.7	
48 Tert-amyl methyl ether	73	8.655	8.655	0.000	97	377069	20.0	19.9	
50 Isobutyl alcohol	42	8.725	8.725	0.000	62	51336	500.0	499.5	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	94	178238	20.0	21.8	
49 1,2-Dichloroethane	62	8.795	8.795	0.000	98	208592	20.0	21.2	
* 51 Fluorobenzene	96	8.977	8.976	0.000	99	1936297	50.0	50.0	
52 Methylcyclohexane	55	9.130	9.130	0.000	90	318084	20.0	20.2	
53 Trichloroethene	95	9.130	9.130	0.000	66	226357	20.0	20.1	
54 n-Butanol	56	9.368	9.368	0.000	91	47507	500.0	502.4	
55 Dibromomethane	93	9.549	9.549	0.000	95	80458	20.0	20.0	
124 Ethyl acrylate	55	9.577	9.577	0.000	99	88514	20.0	17.2	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	93	180022	20.0	19.6	
57 Dichlorobromomethane	83	9.661	9.661	0.000	99	225372	20.0	19.7	
58 Methyl methacrylate	69	9.759	9.759	0.000	88	124644	40.0	36.0	
59 1,4-Dioxane	88	9.842	9.842	0.000	93	18070	400.0	381.7	
60 2-Chloroethyl vinyl ether	63	10.136	10.136	0.000	94	46133	20.0	16.7	
61 cis-1,3-Dichloropropene	75	10.233	10.233	0.000	96	251298	20.0	19.1	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	683328	20.0	20.0	
63 Toluene	92	10.443	10.443	0.000	98	523615	20.0	19.9	
64 2-Nitropropane	43	10.666	10.666	0.000	96	41713	40.0	41.1	
66 4-Methyl-2-pentanone (MIBK	43	10.750	10.750	0.000	97	64540	20.0	19.8	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	87	212437	20.0	19.5	
65 Tetrachloroethene	164	10.806	10.806	0.000	97	194104	20.0	19.6	
69 Ethyl methacrylate	69	10.890	10.890	0.000	87	117396	20.0	17.2	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	92	101601	20.0	19.8	
70 Chlorodibromomethane	129	11.141	11.141	0.000	90	133414	20.0	19.2	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	90	209039	20.0	19.3	
119 n-Butyl acetate	43	11.365	11.365	0.000	93	100877	20.0	16.7	
72 Ethylene Dibromide	107	11.393	11.393	0.000	98	108373	20.0	19.7	
74 2-Hexanone	43	11.490	11.490	0.000	98	46536	20.0	17.7	
S 73 1,3-Dichloropropene, Total	75				0			38.7	
75 1-Chlorohexane	91	11.756	11.756	0.000	97	271297	20.0	18.1	
78 Ethylbenzene	91	11.826	11.826	0.000	96	1022567	20.0	19.9	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	88	1361085	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	11.840	11.840	0.000	95	553367	20.0	19.8	
79 1,1,1,2-Tetrachloroethane	131	11.881	11.881	0.000	93	182400	20.0	19.5	
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	97	367502	20.0	19.1	
82 o-Xylene	106	12.356	12.356	0.000	96	312112	20.0	18.8	
83 Styrene	104	12.398	12.398	0.000	94	513697	20.0	19.6	
84 Bromoform	173	12.468	12.468	0.000	96	77744	20.0	19.2	
85 Isopropylbenzene	105	12.622	12.622	0.000	97	940764	20.0	19.2	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	92	216522	20.0	18.7	
88 N-Propylbenzene	91	13.013	13.013	0.000	98	1131969	20.0	19.9	
87 Bromobenzene	156	13.055	13.055	0.000	89	216150	20.0	19.5	
89 1,1,2,2-Tetrachloroethane	83	13.083	13.083	0.000	96	135138	20.0	20.0	
91 1,3,5-Trimethylbenzene	105	13.180	13.180	0.000	95	753877	20.0	19.2	
90 2-Chlorotoluene	91	13.194	13.194	0.000	96	777819	20.0	19.9	
92 1,2,3-Trichloropropane	110	13.236	13.236	0.000	85	42533	20.0	20.2	
93 trans-1,4-Dichloro-2-buten	53	13.250	13.250	0.000	93	35257	20.0	20.0	
94 Cyclohexanone	55	13.320	13.320	0.000	88	27152	200.0	203.1	
95 4-Chlorotoluene	91	13.348	13.348	0.000	99	664551	20.0	19.5	
96 tert-Butylbenzene	119	13.502	13.502	0.000	93	691898	20.0	19.3	
97 1,2,4-Trimethylbenzene	105	13.557	13.557	0.000	98	802807	20.0	19.8	
98 sec-Butylbenzene	105	13.669	13.669	0.000	94	1105116	20.0	19.7	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	97	893326	20.0	19.5	
100 1,3-Dichlorobenzene	146	13.935	13.935	0.000	98	432823	20.0	19.3	
120 1,2,3-Trimethylbenzene	105	13.990	13.990	0.000	80	768960	20.0	19.5	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.990	0.000	96	702125	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.004	14.004	0.000	94	450677	20.0	19.7	
103 n-Butylbenzene	134	14.200	14.200	0.000	96	230548	20.0	19.0	
121 Benzyl chloride	126	14.228	14.228	0.000	94	52222	20.0	18.5	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	98	366943	20.0	19.3	
106 n-Nonyl Aldehyde	57	15.150	15.150	0.000	87	50189	20.0	19.5	
105 1,2-Dibromo-3-Chloropropan	157	15.219	15.219	0.000	84	23855	20.0	19.7	
107 1,3,5-Trichlorobenzene	180	15.233	15.233	0.000	97	362519	20.0	19.4	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	96	208044	20.0	19.0	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	94	269782	20.0	18.6	
110 Naphthalene	128	16.239	16.239	0.000	97	305135	20.0	18.3	
111 1,2,3-Trichlorobenzene	180	16.434	16.434	0.000	95	221183	20.0	19.1	
S 112 Xylenes, Total	106				0			37.9	
S 113 Trihalomethanes, Total	1				0			78.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 Surr 25_00066

Amount Added: 4.00

Units: uL

8260 NewWkMix_00188

Amount Added: 4.00

Units: uL

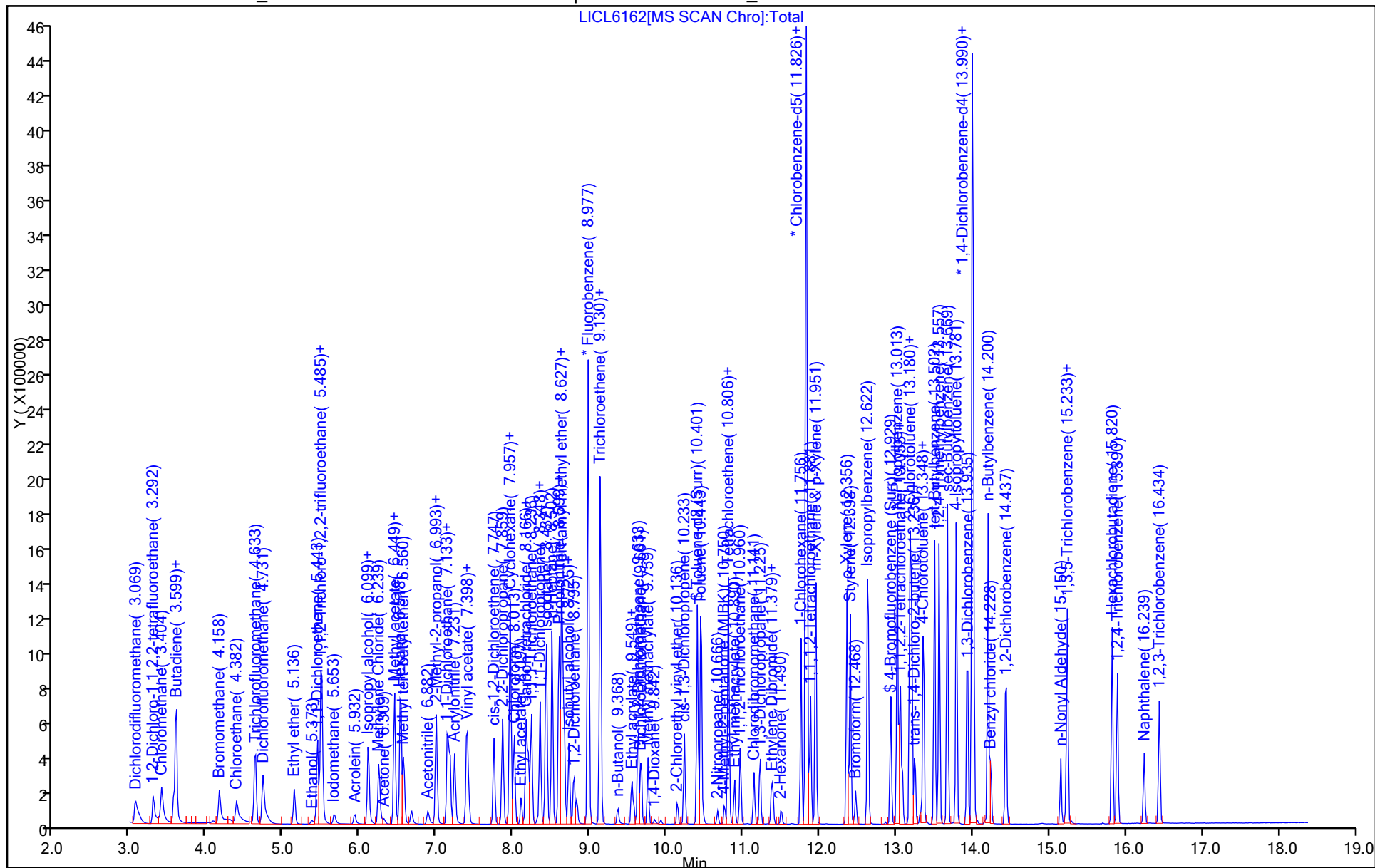
I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

Limit Group: MSV-8260 DoD



TestAmerica St. Louis

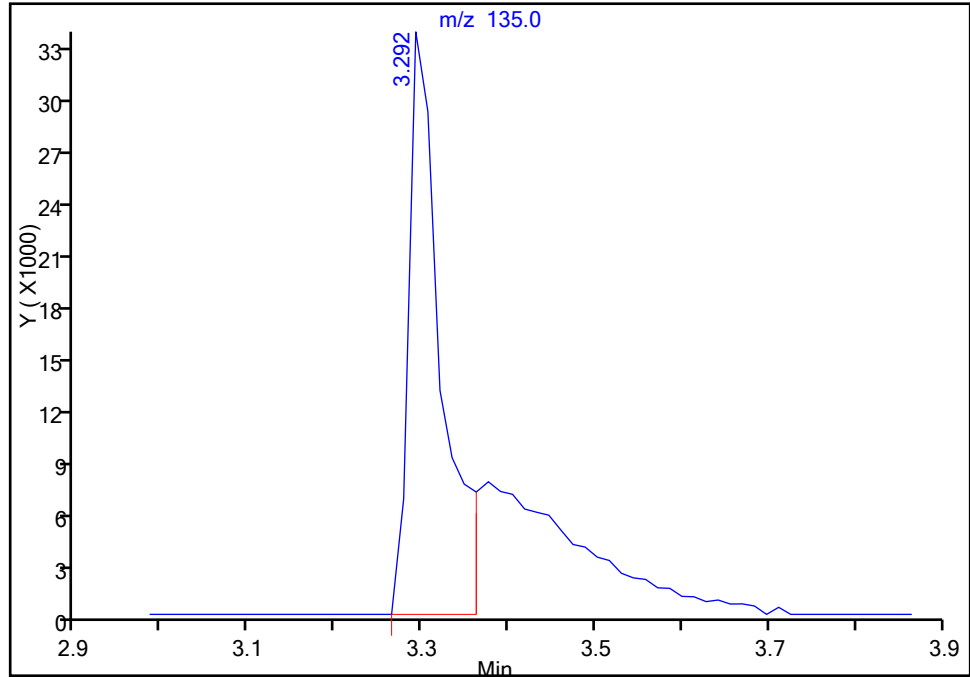
Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6162.D
Injection Date: 20-Oct-2016 12:56:30 Instrument ID: VMSL
Lims ID: IC
Client ID:
Operator ID: ADB ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

2 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Signal: 1

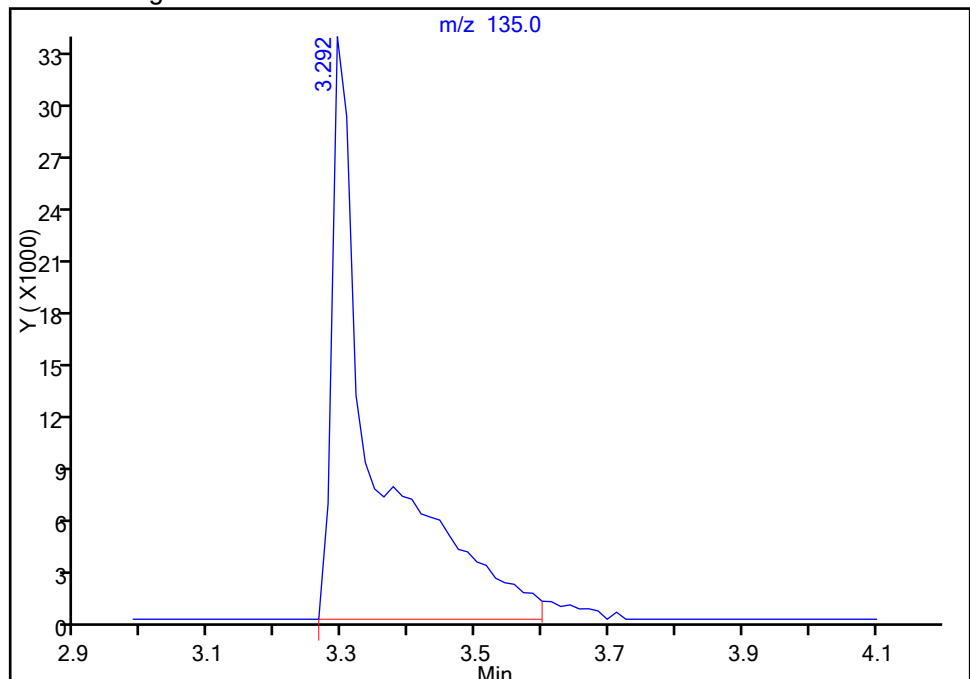
RT: 3.29
Area: 87130
Amount: 13.115766
Amount Units: ug/l

Processing Integration Results



RT: 3.29
Area: 143974
Amount: 20.664245
Amount Units: ug/l

Manual Integration Results



Reviewer: buettnera, 20-Oct-2016 14:11:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6164.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 20-Oct-2016 13:46:30 ALS Bottle#: 8 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 20
 Operator ID: ADB Instrument ID: VMSL
 Sublist: chrom-5mL-8260_VMSL*sub1
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 21-Oct-2016 09:28:37 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN

Process Host: XAWRK039

First Level Reviewer: buettnera

Date: 20-Oct-2016 14:15:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.069	3.069	0.000	99	1301758	100.0	99.4	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.306	3.292	0.014	100	752461	100.0	93.1	
3 Chloromethane	50	3.418	3.404	0.014	99	1493637	100.0	98.4	
4 Vinyl chloride	62	3.572	3.558	0.014	98	1594689	100.0	100.2	
122 Butadiene	39	3.599	3.599	0.000	92	1517924	100.0	101.3	
5 Bromomethane	94	4.158	4.158	0.000	91	711128	100.0	83.9	
6 Chloroethane	64	4.382	4.382	0.000	99	784285	100.0	95.2	
7 Trichlorofluoromethane	101	4.619	4.619	0.000	99	2144030	100.0	99.7	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	99	2375717	100.0	98.8	
8 Ethyl ether	74	5.136	5.136	0.000	90	502011	100.0	102.5	
11 Ethanol	45	5.373	5.373	0.000	100	190480	4000.0	3750.2	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	98	1156306	100.0	101.6	
10 Carbon disulfide	76	5.485	5.485	0.000	99	4286948	100.0	100.8	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	60	1071437	100.0	98.8	
13 Iodomethane	142	5.666	5.653	0.013	100	770820	100.0	98.9	
S 26 1,2-Dichloroethene, Total	96				0			204.9	
14 Acrolein	56	5.918	5.918	0.000	99	324874	500.0	512.9	
15 3-Chloro-1-propene	39	6.099	6.099	0.000	92	1239721	100.0	105.5	
16 Isopropyl alcohol	45	6.127	6.127	0.000	97	261474	1000.0	978.5	
17 Methylene Chloride	84	6.239	6.239	0.000	90	1051369	100.0	96.8	
18 Acetone	43	6.309	6.309	0.000	100	124572	100.0	89.9	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	99	1224338	100.0	101.5	
20 Methyl acetate	74	6.449	6.449	0.000	97	419271	500.0	488.0	
21 Hexane	86	6.532	6.532	0.000	89	449855	100.0	106.7	
22 Methyl tert-butyl ether	73	6.560	6.560	0.000	90	2114065	100.0	103.0	
24 Acetonitrile	41	6.882	6.882	0.000	99	528338	1000.0	935.3	
25 Isopropyl ether	45	6.993	6.993	0.000	93	2811985	100.0	108.5	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	35	347793	1000.0	1060.5	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	90	1991808	100.0	112.2	
28 1,1-Dichloroethane	63	7.175	7.175	0.000	96	2149969	100.0	100.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.231	7.231	0.000	99	1706189	1000.0	972.9	
30 Tert-butyl ethyl ether	59	7.384	7.384	0.000	97	2585435	100.0	108.3	
31 Vinyl acetate	43	7.412	7.412	0.000	97	1519143	100.0	105.9	
32 cis-1,2-Dichloroethene	96	7.747	7.747	0.000	79	1222426	100.0	103.5	
33 2,2-Dichloropropane	77	7.859	7.859	0.000	88	1978009	100.0	100.2	
35 Chlorobromomethane	128	7.957	7.957	0.000	53	412642	100.0	94.7	
34 Cyclohexane	84	7.957	7.957	0.000	88	2242756	100.0	108.0	
36 Chloroform	83	8.013	8.013	0.000	92	2047952	100.0	99.1	
39 Ethyl acetate	45	8.097	8.097	0.000	99	131354	200.0	204.7	
37 Carbon tetrachloride	117	8.166	8.166	0.000	97	1873143	100.0	102.1	
38 Tetrahydrofuran	71	8.180	8.180	0.000	85	114046	200.0	212.5	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.194	0.000	95	880492	100.0	101.1	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	97	2103931	100.0	102.0	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	100	197601	100.0	88.1	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	98	1860130	100.0	107.6	
125 Isooctane	57	8.432	8.432	0.000	100	5428259	100.0	107.7	
117 n-Heptane	43	8.502	8.502	0.000	94	2205570	100.0	107.7	
44 Benzene	78	8.599	8.599	0.000	95	4909486	100.0	99.7	
45 Propionitrile	54	8.613	8.613	0.000	91	642658	1000.0	937.7	
46 Methacrylonitrile	41	8.627	8.627	0.000	91	3287763	1000.0	980.9	
48 Tert-amyl methyl ether	73	8.655	8.655	0.000	99	2283903	100.0	103.9	
50 Isobutyl alcohol	42	8.725	8.725	0.000	69	304072	2500.0	2551.4	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	94	910423	100.0	96.1	
49 1,2-Dichloroethane	62	8.795	8.795	0.000	98	1134325	100.0	99.3	
* 51 Fluorobenzene	96	8.976	8.976	0.000	99	2245408	50.0	50.0	
52 Methylcyclohexane	55	9.130	9.130	0.000	88	1937211	100.0	105.9	
53 Trichloroethene	95	9.130	9.130	0.000	63	1311633	100.0	100.6	
54 n-Butanol	56	9.368	9.368	0.000	88	321120	2500.0	2482.5	
55 Dibromomethane	93	9.549	9.549	0.000	95	457975	100.0	98.2	
124 Ethyl acrylate	55	9.563	9.577	-0.014	100	659400	100.0	95.3	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	95	1093426	100.0	102.9	
57 Dichlorobromomethane	83	9.661	9.661	0.000	99	1365023	100.0	102.9	
58 Methyl methacrylate	69	9.759	9.759	0.000	87	886174	200.0	193.1	
59 1,4-Dioxane	88	9.842	9.842	0.000	92	113147	2000.0	2061.2	
60 2-Chloroethyl vinyl ether	63	10.136	10.136	0.000	92	365583	100.0	96.4	
61 cis-1,3-Dichloropropene	75	10.233	10.233	0.000	96	1646331	100.0	108.2	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	4099927	100.0	103.7	
63 Toluene	92	10.443	10.443	0.000	99	3171491	100.0	104.2	
64 2-Nitropropane	43	10.666	10.666	0.000	98	285073	200.0	201.7	
66 4-Methyl-2-pentanone (MIBK	43	10.750	10.750	0.000	96	452759	100.0	100.0	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	90	1364386	100.0	108.3	
65 Tetrachloroethene	164	10.806	10.806	0.000	98	1182682	100.0	103.2	
69 Ethyl methacrylate	69	10.890	10.890	0.000	87	898121	100.0	94.3	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	91	580649	100.0	97.8	
70 Chlorodibromomethane	129	11.141	11.141	0.000	90	835133	100.0	103.8	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	89	1273459	100.0	101.7	
119 n-Butyl acetate	43	11.365	11.365	0.000	95	802005	100.0	93.3	
72 Ethylene Dibromide	107	11.393	11.393	0.000	99	644164	100.0	101.2	
74 2-Hexanone	43	11.490	11.490	0.000	96	311618	100.0	102.5	
S 73 1,3-Dichloropropene, Total	75				0			216.5	
75 1-Chlorohexane	91	11.756	11.756	0.000	97	2001907	100.0	106.2	
78 Ethylbenzene	91	11.826	11.826	0.000	98	6208238	100.0	104.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	86	1576409	50.0	50.0	
77 Chlorobenzene	112	11.840	11.840	0.000	96	3221541	100.0	99.4	
79 1,1,1,2-Tetrachloroethane	131	11.881	11.881	0.000	95	1094796	100.0	101.0	
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	97	2442363	100.0	109.4	
82 o-Xylene	106	12.356	12.356	0.000	96	2196753	100.0	114.2	
83 Styrene	104	12.398	12.398	0.000	94	3445249	100.0	113.5	
84 Bromoform	173	12.468	12.468	0.000	97	479767	100.0	98.9	
85 Isopropylbenzene	105	12.622	12.622	0.000	97	6338633	100.0	107.7	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	92	1465882	100.0	105.4	
88 N-Propylbenzene	91	13.013	13.013	0.000	98	7425535	100.0	108.5	
87 Bromobenzene	156	13.055	13.055	0.000	88	1295574	100.0	97.5	
89 1,1,2,2-Tetrachloroethane	83	13.083	13.083	0.000	95	761423	100.0	94.1	
91 1,3,5-Trimethylbenzene	105	13.180	13.180	0.000	95	5242191	100.0	111.3	
90 2-Chlorotoluene	91	13.194	13.194	0.000	97	4792376	100.0	102.3	
92 1,2,3-Trichloropropane	110	13.236	13.236	0.000	85	239051	100.0	94.7	
93 trans-1,4-Dichloro-2-buten	53	13.250	13.250	0.000	91	206964	100.0	97.9	
94 Cyclohexanone	55	13.320	13.320	0.000	88	182269	1000.0	973.3	
95 4-Chlorotoluene	91	13.348	13.348	0.000	99	4336140	100.0	105.9	
96 tert-Butylbenzene	119	13.502	13.502	0.000	93	4769094	100.0	110.8	
97 1,2,4-Trimethylbenzene	105	13.557	13.557	0.000	98	5285339	100.0	108.4	
98 sec-Butylbenzene	105	13.669	13.669	0.000	94	7309657	100.0	108.8	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	96	6210581	100.0	113.0	
100 1,3-Dichlorobenzene	146	13.934	13.935	0.000	98	2727539	100.0	101.2	
120 1,2,3-Trimethylbenzene	105	13.990	13.990	0.000	94	4999767	100.0	105.5	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.990	0.000	58	843001	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.004	14.004	0.000	93	2693933	100.0	97.9	
103 n-Butylbenzene	134	14.200	14.200	0.000	96	1657044	100.0	113.5	
121 Benzyl chloride	126	14.228	14.228	0.000	95	343725	100.0	101.6	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	98	2340503	100.0	102.7	
106 n-Nonyl Aldehyde	57	15.150	15.150	0.000	92	470660	100.0	88.8	
105 1,2-Dibromo-3-Chloropropan	157	15.219	15.219	0.000	85	148013	100.0	102.0	
107 1,3,5-Trichlorobenzene	180	15.233	15.233	0.000	98	2280755	100.0	101.8	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	96	1378852	100.0	104.6	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	94	1832400	100.0	105.3	
110 Naphthalene	128	16.239	16.239	0.000	97	2294609	100.0	98.8	
111 1,2,3-Trichlorobenzene	180	16.434	16.434	0.000	96	1427727	100.0	102.8	
S 112 Xylenes, Total	106				0			223.7	
S 113 Trihalomethanes, Total	1				0			404.6	

Reagents:

8260 Surr 25_00066

Amount Added: 20.00

Units: uL

8260NewHiWrk_00166

Amount Added: 4.00

Units: uL

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6164.D

Injection Date: 20-Oct-2016 13:46:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: IC

Worklist Smp#: 11

Client ID:

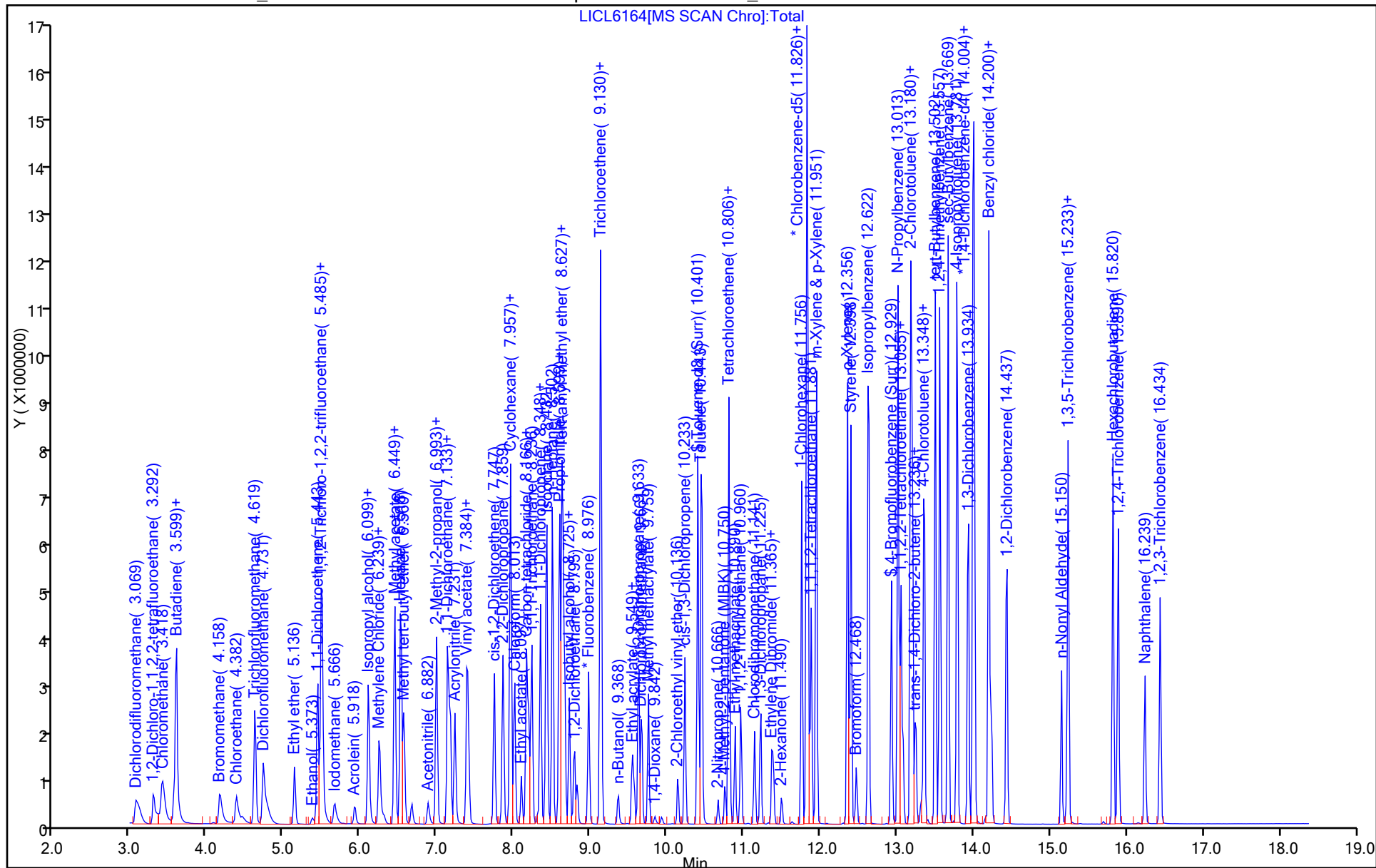
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6165.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 20-Oct-2016 14:11:30 ALS Bottle#: 9 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 40
 Operator ID: ADB Instrument ID: VMSL
 Sublist: chrom-5mL-8260_VMSL*sub1
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 21-Oct-2016 09:28:39 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN

Process Host: XAWRK039

First Level Reviewer: buettnera

Date: 20-Oct-2016 14:34:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.069	3.069	0.000	99	2576513	200.0	193.7	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.306	3.292	0.014	100	1484549	200.0	178.3	
3 Chloromethane	50	3.404	3.404	0.000	99	2911599	200.0	186.1	
4 Vinyl chloride	62	3.572	3.558	0.014	97	3043344	200.0	185.6	
122 Butadiene	39	3.600	3.599	0.001	90	2829896	200.0	183.3	
5 Bromomethane	94	4.158	4.158	0.000	91	1569126	200.0	179.7	
6 Chloroethane	64	4.382	4.382	0.000	99	1991623	200.0	200.6	
7 Trichlorofluoromethane	101	4.633	4.619	0.014	99	4083609	200.0	184.2	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	99	4714625	200.0	190.3	
8 Ethyl ether	74	5.136	5.136	0.000	89	1099816	200.0	217.9	
11 Ethanol	45	5.359	5.373	-0.014	100	439489	8000.0	8398.6	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	98	2406793	200.0	205.3	
10 Carbon disulfide	76	5.485	5.485	0.000	99	8543685	200.0	195.1	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	59	2145966	200.0	192.1	
13 Iodomethane	142	5.653	5.653	0.000	99	1909405	200.0	200.1	
S 26 1,2-Dichloroethene, Total	96				0			407.6	
14 Acrolein	56	5.918	5.918	0.000	100	737515	1000.0	1130.3	
15 3-Chloro-1-propene	39	6.100	6.099	0.001	92	2500035	200.0	206.5	
16 Isopropyl alcohol	45	6.128	6.127	0.001	98	604401	2000.0	2195.4	
17 Methylene Chloride	84	6.239	6.239	0.000	89	2185278	200.0	195.4	
18 Acetone	43	6.309	6.309	0.000	99	289087	200.0	211.4	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	99	2487106	200.0	200.0	
20 Methyl acetate	74	6.449	6.449	0.000	96	918776	1000.0	1038.1	
21 Hexane	86	6.533	6.532	0.001	92	906388	200.0	208.8	
22 Methyl tert-butyl ether	73	6.561	6.560	0.001	83	4625727	200.0	218.8	
24 Acetonitrile	41	6.882	6.882	0.000	99	1153470	2000.0	1981.9	
25 Isopropyl ether	45	6.993	6.993	0.000	93	5967432	200.0	223.5	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	35	747331	2000.0	2211.8	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	91	4005003	200.0	218.9	
28 1,1-Dichloroethane	63	7.175	7.175	0.000	96	4346531	200.0	196.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.231	7.231	0.000	99	3672845	2000.0	2032.9	
30 Tert-butyl ethyl ether	59	7.385	7.384	0.001	97	5547559	200.0	225.5	
31 Vinyl acetate	43	7.412	7.412	0.000	97	3224124	200.0	218.2	
32 cis-1,2-Dichloroethene	96	7.748	7.747	0.001	78	2527062	200.0	207.6	
33 2,2-Dichloropropane	77	7.859	7.859	0.000	88	3986700	200.0	196.1	
35 Chlorobromomethane	128	7.957	7.957	0.000	55	877881	200.0	195.5	
34 Cyclohexane	84	7.957	7.957	0.000	88	4449608	200.0	208.0	
36 Chloroform	83	8.013	8.013	0.000	92	4172040	200.0	196.0	
39 Ethyl acetate	45	8.097	8.097	0.000	99	296023	400.0	447.7	
37 Carbon tetrachloride	117	8.167	8.166	0.001	97	3705398	200.0	196.0	
38 Tetrahydrofuran	71	8.181	8.180	0.001	85	266988	400.0	482.8	
\$ 41 Dibromofluoromethane (Surr	113	8.195	8.194	0.001	94	1882231	200.0	209.8	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	97	4157028	200.0	195.5	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	100	456252	200.0	197.5	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	98	3676324	200.0	206.4	
125 Isooctane	57	8.432	8.432	0.000	100	10676240	200.0	205.6	
117 n-Heptane	43	8.502	8.502	0.000	95	4210368	200.0	199.6	
44 Benzene	78	8.600	8.599	0.001	96	9653541	200.0	190.2	
45 Propionitrile	54	8.614	8.613	0.001	94	1390755	2000.0	1969.7	
46 Methacrylonitrile	41	8.628	8.627	0.001	91	6810694	2000.0	1972.2	
48 Tert-amyl methyl ether	73	8.655	8.655	0.000	99	4920923	200.0	217.3	
50 Isobutyl alcohol	42	8.725	8.725	0.000	72	714699	5000.0	5820.7	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	93	1916891	200.0	196.5	
49 1,2-Dichloroethane	62	8.795	8.795	0.000	98	2334757	200.0	198.4	
* 51 Fluorobenzene	96	8.977	8.976	0.001	99	2313356	50.0	50.0	
52 Methylcyclohexane	55	9.130	9.130	0.000	88	3718720	200.0	197.4	
53 Trichloroethene	95	9.130	9.130	0.000	64	2542064	200.0	189.2	
54 n-Butanol	56	9.368	9.368	0.000	86	792559	5000.0	5002.2	
55 Dibromomethane	93	9.549	9.549	0.000	95	979829	200.0	204.0	
124 Ethyl acrylate	55	9.563	9.577	-0.014	100	1527587	200.0	210.7	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	95	2232398	200.0	203.9	
57 Dichlorobromomethane	83	9.661	9.661	0.000	99	2825095	200.0	206.6	
58 Methyl methacrylate	69	9.759	9.759	0.000	87	1999172	400.0	416.3	
59 1,4-Dioxane	88	9.843	9.842	0.001	91	265742	4000.0	4698.9	
60 2-Chloroethyl vinyl ether	63	10.136	10.136	0.000	92	827240	200.0	208.0	
61 cis-1,3-Dichloropropene	75	10.234	10.233	0.001	96	3455875	200.0	220.4	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	8211683	200.0	209.8	
63 Toluene	92	10.457	10.443	0.014	99	6154189	200.0	204.4	
64 2-Nitropropane	43	10.667	10.666	0.001	97	664049	400.0	399.8	
66 4-Methyl-2-pentanone (MIBK	43	10.750	10.750	0.000	96	1054001	200.0	200.0	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	92	2840355	200.0	227.9	
65 Tetrachloroethene	164	10.806	10.806	0.000	97	2171806	200.0	191.5	
69 Ethyl methacrylate	69	10.890	10.890	0.000	92	2038991	200.0	211.9	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	91	1243006	200.0	211.6	
70 Chlorodibromomethane	129	11.141	11.141	0.000	89	1813739	200.0	227.9	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	89	2723477	200.0	219.8	
119 n-Butyl acetate	43	11.365	11.365	0.000	95	1864949	200.0	214.3	
72 Ethylene Dibromide	107	11.393	11.393	0.000	99	1377362	200.0	218.6	
74 2-Hexanone	43	11.491	11.490	0.001	95	733911	200.0	244.1	
S 73 1,3-Dichloropropene, Total	75				0			448.3	
75 1-Chlorohexane	91	11.756	11.756	0.000	97	3617578	200.0	192.5	
78 Ethylbenzene	91	11.826	11.826	0.000	97	10892366	200.0	184.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	45	1559592	50.0	50.0	
77 Chlorobenzene	112	11.840	11.840	0.000	93	6089476	200.0	189.8	
79 1,1,1,2-Tetrachloroethane	131	11.882	11.881	0.001	95	2223531	200.0	207.3	
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	97	4549419	200.0	206.0	
82 o-Xylene	106	12.357	12.356	0.001	96	4205701	200.0	221.1	
83 Styrene	104	12.398	12.398	0.000	93	6538865	200.0	217.8	
84 Bromoform	173	12.468	12.468	0.000	97	1041094	200.0	238.7	
85 Isopropylbenzene	105	12.636	12.622	0.014	96	11067518	200.0	209.2	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	91	2909530	200.0	232.8	
88 N-Propylbenzene	91	13.013	13.013	0.000	97	11898000	200.0	193.5	
87 Bromobenzene	156	13.055	13.055	0.000	88	2500704	200.0	209.4	
89 1,1,2,2-Tetrachloroethane	83	13.083	13.083	0.000	95	1575393	200.0	216.6	
91 1,3,5-Trimethylbenzene	105	13.181	13.180	0.001	95	8820650	200.0	208.4	
90 2-Chlorotoluene	91	13.194	13.194	0.000	97	8435282	200.0	200.3	
92 1,2,3-Trichloropropane	110	13.236	13.236	0.000	85	493163	200.0	217.4	
93 trans-1,4-Dichloro-2-buten	53	13.250	13.250	0.000	87	437133	200.0	230.1	
94 Cyclohexanone	55	13.320	13.320	0.000	89	437299	2000.0	2002.9	
95 4-Chlorotoluene	91	13.362	13.348	0.014	97	7578740	200.0	205.9	
96 tert-Butylbenzene	119	13.502	13.502	0.000	92	7979076	200.0	206.3	
97 1,2,4-Trimethylbenzene	105	13.558	13.557	0.001	98	8913772	200.0	203.3	
98 sec-Butylbenzene	105	13.669	13.669	0.000	95	11315118	200.0	187.4	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	96	9759361	200.0	197.6	
100 1,3-Dichlorobenzene	146	13.935	13.935	0.001	98	4832723	200.0	199.6	
120 1,2,3-Trimethylbenzene	105	13.991	13.990	0.001	91	8690543	200.0	204.1	
* 101 1,4-Dichlorobenzene-d4	152	13.991	13.990	0.001	52	757651	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.019	14.004	0.014	96	4694038	200.0	189.9	
103 n-Butylbenzene	134	14.200	14.200	0.000	94	2576673	200.0	196.3	
121 Benzyl chloride	126	14.242	14.228	0.014	96	698868	200.0	229.9	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	99	4228353	200.0	206.5	
106 n-Nonyl Aldehyde	57	15.150	15.150	0.000	93	1048932	200.0	206.6	
105 1,2-Dibromo-3-Chloropropan	157	15.220	15.219	0.001	87	320674	200.0	245.8	
107 1,3,5-Trichlorobenzene	180	15.234	15.233	0.001	98	3921814	200.0	194.8	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	95	2165417	200.0	182.8	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	94	3344629	200.0	213.9	
110 Naphthalene	128	16.239	16.239	0.000	97	4735403	200.0	200.1	
111 1,2,3-Trichlorobenzene	180	16.435	16.434	0.001	96	2591293	200.0	207.6	
S 112 Xylenes, Total	106				0			427.1	
S 113 Trihalomethanes, Total	1				0			869.2	

Reagents:

8260_Surr_00040

Amount Added: 0.40

Units: uL

8260NewHiWrk_00166

Amount Added: 8.00

Units: uL

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6165.D

Injection Date: 20-Oct-2016 14:11:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: IC

Worklist Smp#: 12

Client ID:

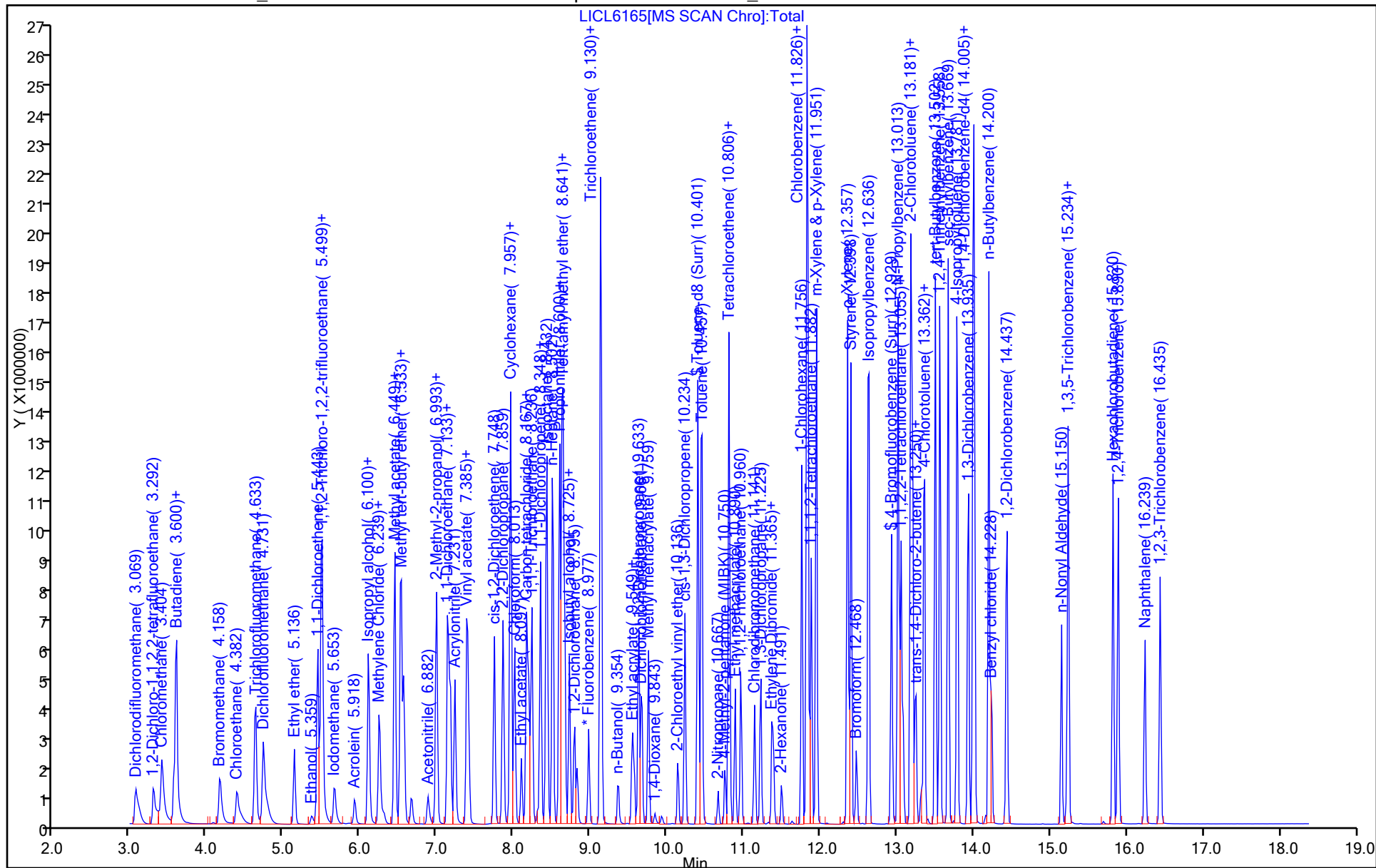
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6167.D
 Lims ID: icis
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 20-Oct-2016 15:05:30 ALS Bottle#: 11 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS
 Misc. Info.: ICIS
 Operator ID: ADB Instrument ID: VMSL
 Sublist: chrom-5mL-8260_VMSL*sub1
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 21-Oct-2016 09:28:51 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN

Process Host: XAWRK039

First Level Reviewer: buettnera

Date: 20-Oct-2016 15:26:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.069	3.069	0.000	99	879304	50.0	55.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.292	3.292	0.000	100	484304	50.0	50.7	
3 Chloromethane	50	3.404	3.404	0.000	99	845143	50.0	47.0	
4 Vinyl chloride	62	3.572	3.572	0.000	98	926358	50.0	49.2	
122 Butadiene	39	3.600	3.600	0.000	89	861658	50.0	48.6	
5 Bromomethane	94	4.158	4.158	0.000	91	461238	50.0	46.0	
6 Chloroethane	64	4.382	4.382	0.000	99	539941	50.0	56.9	
7 Trichlorofluoromethane	101	4.619	4.619	0.000	99	1163542	50.0	45.7	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	99	1302019	50.0	45.7	
8 Ethyl ether	74	5.136	5.136	0.000	89	288230	50.0	49.7	
11 Ethanol	45	5.373	5.373	0.000	100	111080	2000.0	1848.2	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	98	667294	50.0	49.6	
10 Carbon disulfide	76	5.485	5.485	0.000	99	2430387	50.0	48.3	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	91	604247	50.0	47.1	
13 Iodomethane	142	5.653	5.653	0.000	99	434204	50.0	52.6	
14 Acrolein	56	5.932	5.932	0.000	100	195854	250.0	261.3	
15 3-Chloro-1-propene	39	6.100	6.100	0.000	92	684376	50.0	49.2	
16 Isopropyl alcohol	45	6.127	6.127	0.000	97	153243	500.0	484.7	
17 Methylene Chloride	84	6.239	6.239	0.000	90	612128	50.0	47.7	
18 Acetone	43	6.309	6.309	0.000	99	81466	50.0	46.6	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	99	716909	50.0	50.2	
20 Methyl acetate	74	6.449	6.449	0.000	97	246321	250.0	242.3	
21 Hexane	86	6.532	6.532	0.000	88	261272	50.0	52.4	
22 Methyl tert-butyl ether	73	6.560	6.560	0.000	89	1190526	50.0	49.0	
24 Acetonitrile	41	6.882	6.882	0.000	99	309841	500.0	463.5	
25 Isopropyl ether	45	6.993	6.993	0.000	93	1598005	50.0	52.1	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	35	200489	500.0	516.6	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	90	1088863	50.0	51.8	
28 1,1-Dichloroethane	63	7.175	7.175	0.000	95	1213011	50.0	47.7	
29 Acrylonitrile	53	7.231	7.231	0.000	100	1003671	500.0	483.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.384	7.384	0.000	97	1443456	50.0	51.1	
31 Vinyl acetate	43	7.412	7.412	0.000	97	847608	50.0	49.9	
32 cis-1,2-Dichloroethene	96	7.748	7.748	0.000	78	707061	50.0	50.6	
33 2,2-Dichloropropane	77	7.859	7.859	0.000	88	1167291	50.0	50.0	
35 Chlorobromomethane	128	7.957	7.957	0.000	55	248207	50.0	48.1	
34 Cyclohexane	84	7.957	7.957	0.000	87	1294979	50.0	52.7	
36 Chloroform	83	8.013	8.013	0.000	92	1157843	50.0	47.4	
39 Ethyl acetate	45	8.097	8.097	0.000	99	73411	100.0	96.7	
37 Carbon tetrachloride	117	8.167	8.167	0.000	97	1029602	50.0	47.4	
38 Tetrahydrofuran	71	8.180	8.180	0.000	86	67443	100.0	106.2	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.194	0.000	95	511449	50.0	49.6	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	97	1171670	50.0	48.0	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	100	122316	50.0	46.1	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	98	1058864	50.0	51.8	
125 Isooctane	57	8.432	8.432	0.000	100	3115332	50.0	52.2	
117 n-Heptane	43	8.502	8.502	0.000	91	1260122	50.0	52.0	
44 Benzene	78	8.599	8.599	0.000	95	2854949	50.0	49.0	
45 Propionitrile	54	8.613	8.613	0.000	93	376350	500.0	464.1	
46 Methacrylonitrile	41	8.627	8.627	0.000	91	1860342	500.0	469.1	
48 Tert-amyl methyl ether	73	8.655	8.655	0.000	99	1272571	50.0	48.9	
50 Isobutyl alcohol	42	8.725	8.725	0.000	67	171364	1250.0	1215.2	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	93	519413	50.0	46.4	
49 1,2-Dichloroethane	62	8.795	8.795	0.000	98	616840	50.0	45.6	
* 51 Fluorobenzene	96	8.977	8.977	0.000	99	2656903	50.0	50.0	
52 Methylcyclohexane	55	9.130	9.130	0.000	87	1098427	50.0	50.8	
53 Trichloroethene	95	9.130	9.130	0.000	62	755326	50.0	48.9	
54 n-Butanol	56	9.368	9.368	0.000	88	177914	1250.0	1278.8	
55 Dibromomethane	93	9.549	9.549	0.000	95	259226	50.0	47.0	
124 Ethyl acrylate	55	9.577	9.577	0.000	100	360793	50.0	45.6	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	96	622754	50.0	49.5	
57 Dichlorobromomethane	83	9.661	9.661	0.000	99	753022	50.0	48.0	
58 Methyl methacrylate	69	9.759	9.759	0.000	87	489433	100.0	93.0	
59 1,4-Dioxane	88	9.842	9.842	0.000	93	67841	1000.0	1044.5	
60 2-Chloroethyl vinyl ether	63	10.136	10.136	0.000	91	207238	50.0	47.8	
61 cis-1,3-Dichloropropene	75	10.234	10.234	0.000	97	939732	50.0	52.2	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	92	2514617	50.0	53.8	
63 Toluene	92	10.443	10.443	0.000	99	1864591	50.0	51.9	
64 2-Nitropropane	43	10.666	10.666	0.000	99	145000	100.0	96.8	
66 4-Methyl-2-pentanone (MIBK	43	10.750	10.750	0.000	96	242409	50.0	50.0	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	87	764602	50.0	51.4	
65 Tetrachloroethene	164	10.806	10.806	0.000	98	690396	50.0	51.0	
69 Ethyl methacrylate	69	10.890	10.890	0.000	87	488986	50.0	45.4	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	91	334556	50.0	47.7	
70 Chlorodibromomethane	129	11.141	11.141	0.000	90	461735	50.0	48.6	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	88	724910	50.0	49.0	
119 n-Butyl acetate	43	11.365	11.365	0.000	95	428949	50.0	44.3	
72 Ethylene Dibromide	107	11.393	11.393	0.000	100	369131	50.0	49.1	
74 2-Hexanone	43	11.490	11.490	0.000	95	175581	50.0	48.9	
75 1-Chlorohexane	91	11.756	11.756	0.000	96	1158558	50.0	52.9	
78 Ethylbenzene	91	11.826	11.826	0.000	98	3603403	50.0	51.2	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	93	1862300	50.0	50.0	
77 Chlorobenzene	112	11.840	11.840	0.000	95	1875612	50.0	49.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
79 1,1,1,2-Tetrachloroethane	131	11.882	11.882	0.000	95	614495	50.0	48.0	
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	97	1408316	50.0	53.4	
82 o-Xylene	106	12.356	12.356	0.000	96	1246372	50.0	54.9	
83 Styrene	104	12.398	12.398	0.000	94	1951798	50.0	54.4	
84 Bromoform	173	12.468	12.468	0.000	97	263769	50.0	48.1	
85 Isopropylbenzene	105	12.622	12.622	0.000	97	3652110	50.0	54.9	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	92	838663	50.0	53.4	
88 N-Propylbenzene	91	13.013	13.013	0.000	98	4280597	50.0	55.4	
87 Bromobenzene	156	13.055	13.055	0.000	88	737862	50.0	49.2	
89 1,1,2,2-Tetrachloroethane	83	13.083	13.083	0.000	95	421864	50.0	46.2	
91 1,3,5-Trimethylbenzene	105	13.180	13.180	0.000	95	2921301	50.0	54.9	
90 2-Chlorotoluene	91	13.194	13.194	0.000	97	2706311	50.0	51.2	
92 1,2,3-Trichloropropane	110	13.236	13.236	0.000	84	133267	50.0	46.8	
93 trans-1,4-Dichloro-2-buten	53	13.250	13.250	0.000	91	115913	50.0	48.6	
94 Cyclohexanone	55	13.320	13.320	0.000	87	103123	500.0	547.7	
95 4-Chlorotoluene	91	13.348	13.348	0.000	98	2435053	50.0	52.7	
96 tert-Butylbenzene	119	13.502	13.502	0.000	92	2654400	50.0	54.6	
97 1,2,4-Trimethylbenzene	105	13.557	13.557	0.000	97	2939132	50.0	53.4	
98 sec-Butylbenzene	105	13.669	13.669	0.000	94	4091760	50.0	53.9	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	97	3448233	50.0	55.6	
100 1,3-Dichlorobenzene	146	13.935	13.935	0.000	99	1532532	50.0	50.4	
120 1,2,3-Trimethylbenzene	105	13.990	13.990	0.000	95	2721727	50.0	50.9	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.990	0.000	76	951892	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.004	14.004	0.000	95	1502838	50.0	48.4	
103 n-Butylbenzene	134	14.200	14.200	0.000	96	917302	50.0	55.6	
121 Benzyl chloride	126	14.242	14.242	0.000	96	201413	50.0	52.7	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	99	1290693	50.0	50.2	
106 n-Nonyl Aldehyde	57	15.150	15.150	0.000	92	236987	50.0	44.8	
105 1,2-Dibromo-3-Chloropropan	157	15.219	15.219	0.000	85	80652	50.0	49.2	
107 1,3,5-Trichlorobenzene	180	15.233	15.233	0.000	98	1327994	50.0	52.5	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	96	786191	50.0	52.8	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	94	1053591	50.0	53.6	
110 Naphthalene	128	16.239	16.239	0.000	97	1282297	50.0	52.4	
111 1,2,3-Trichlorobenzene	180	16.435	16.435	0.000	96	825456	50.0	52.6	

Reagents:

8260 NewWkMix_00188

Amount Added: 10.00

Units: uL

8260 Surr 25_00066

Amount Added: 10.00

Units: uL

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\\StLouis\\ChromData\\VMSL\\20161020-8778.b\\LIC16167.D

Injection Date: 20-Oct-2016 15:05:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: ics

Worklist Smp#: 15

Client ID:

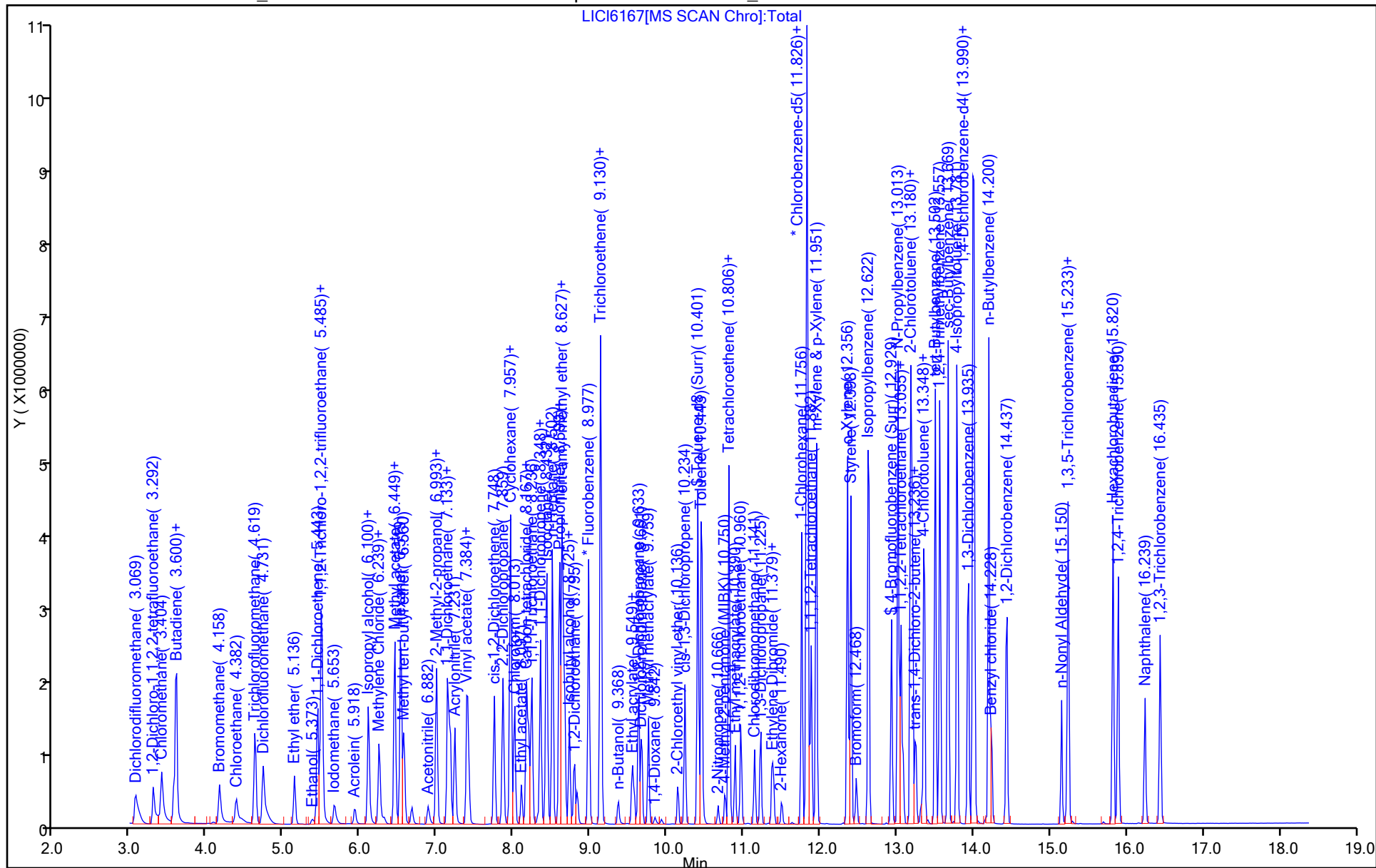
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 20-Oct-2016 15:55:30 ALS Bottle#: 13 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Operator ID: ADB Instrument ID: VMSL
 Sublist: chrom-5mL-8260_VMSL*sub1
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 21-Oct-2016 09:28:18 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK039

First Level Reviewer: buettnera Date: 20-Oct-2016 16:17:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.069	3.069	0.000	99	186809	10.0	8.60	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.292	3.292	0.000	100	99476	10.0	9.66	M
3 Chloromethane	50	3.404	3.404	0.000	99	194582	10.0	10.1	
4 Vinyl chloride	62	3.572	3.558	0.014	97	195266	10.0	9.63	
122 Butadiene	39	3.599	3.599	0.000	89	181969	10.0	9.53	
5 Bromomethane	94	4.158	4.158	0.000	90	115986	10.0	10.7	
6 Chloroethane	64	4.382	4.382	0.000	99	117482	10.0	5.90	
7 Trichlorofluoromethane	101	4.633	4.619	0.014	98	241837	10.0	8.82	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	100	275798	10.0	9.00	
8 Ethyl ether	74	5.136	5.136	0.000	90	60906	10.0	9.75	
11 Ethanol	45	5.373	5.373	0.000	98	25886	400.0	399.8	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	97	142137	10.0	9.80	
10 Carbon disulfide	76	5.485	5.485	0.000	99	517771	10.0	9.55	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	90	129809	10.0	9.39	
13 Iodomethane	142	5.666	5.653	0.013	99	50275	10.0	9.21	
S 26 1,2-Dichloroethene, Total	96				0			19.7	
14 Acrolein	56	5.932	5.918	0.014	99	39900	50.0	49.4	
15 3-Chloro-1-propene	39	6.099	6.099	0.000	93	138935	10.0	9.28	
16 Isopropyl alcohol	45	6.127	6.127	0.000	97	32961	100.0	96.8	
17 Methylene Chloride	84	6.239	6.239	0.000	89	134675	10.0	9.73	
18 Acetone	43	6.309	6.309	0.000	99	27742	10.0	9.93	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	99	150494	10.0	9.78	
20 Methyl acetate	74	6.449	6.449	0.000	97	53225	50.0	48.6	
21 Hexane	86	6.532	6.532	0.000	88	53758	10.0	10.0	
22 Methyl tert-butyl ether	73	6.560	6.560	0.000	89	246751	10.0	9.43	
24 Acetonitrile	41	6.882	6.882	0.000	99	70376	100.0	97.7	
25 Isopropyl ether	45	6.993	6.993	0.000	93	320113	10.0	9.69	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	35	40089	100.0	95.9	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	89	207226	10.0	9.16	
28 1,1-Dichloroethane	63	7.175	7.175	0.000	95	257150	10.0	9.40	
29 Acrylonitrile	53	7.231	7.231	0.000	99	220487	100.0	98.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.398	7.384	0.014	96	285414	10.0	9.38	
31 Vinyl acetate	43	7.412	7.412	0.000	97	168438	10.0	9.21	
32 cis-1,2-Dichloroethene	96	7.747	7.747	0.000	78	148696	10.0	9.87	
33 2,2-Dichloropropane	77	7.859	7.859	0.000	88	240964	10.0	9.58	
35 Chlorobromomethane	128	7.957	7.957	0.000	59	54829	10.0	9.87	
34 Cyclohexane	84	7.957	7.957	0.000	87	262202	10.0	9.91	
36 Chloroform	83	8.013	8.013	0.000	92	244714	10.0	9.29	
39 Ethyl acetate	45	8.097	8.097	0.000	98	14912	20.0	18.2	
37 Carbon tetrachloride	117	8.166	8.166	0.000	96	213687	10.0	9.14	
38 Tetrahydrofuran	71	8.194	8.180	0.014	51	13091	20.0	19.1	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.194	0.000	95	105767	10.0	9.53	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	97	243504	10.0	9.26	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	99	29555	10.0	10.3	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	99	212627	10.0	9.65	
125 Isooctane	57	8.432	8.432	0.000	100	626922	10.0	9.76	
117 n-Heptane	43	8.502	8.502	0.000	93	257467	10.0	9.86	
44 Benzene	78	8.599	8.599	0.000	95	622129	10.0	9.91	
45 Propionitrile	54	8.613	8.613	0.000	93	87499	100.0	100.2	
46 Methacrylonitrile	41	8.627	8.627	0.000	91	406100	100.0	95.1	
48 Tert-amyl methyl ether	73	8.669	8.655	0.014	98	261092	10.0	9.32	
50 Isobutyl alcohol	42	8.725	8.725	0.000	62	34495	250.0	227.1	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	91	111602	10.0	9.25	
49 1,2-Dichloroethane	62	8.795	8.795	0.000	97	129924	10.0	8.92	
* 51 Fluorobenzene	96	8.976	8.976	0.000	99	2862093	50.0	50.0	
52 Methylcyclohexane	55	9.130	9.130	0.000	88	225420	10.0	9.67	
53 Trichloroethene	95	9.130	9.130	0.000	64	160064	10.0	9.63	
54 n-Butanol	56	9.368	9.368	0.000	90	33342	250.0	245.7	
55 Dibromomethane	93	9.549	9.549	0.000	94	56126	10.0	9.45	
124 Ethyl acrylate	55	9.577	9.577	0.000	100	67030	10.0	10.2	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	95	129708	10.0	9.57	
57 Dichlorobromomethane	83	9.661	9.661	0.000	99	152997	10.0	9.04	
58 Methyl methacrylate	69	9.759	9.759	0.000	86	87772	20.0	20.0	
59 1,4-Dioxane	88	9.842	9.842	0.000	90	13355	200.0	190.9	
60 2-Chloroethyl vinyl ether	63	10.136	10.136	0.000	93	35287	10.0	10.1	
61 cis-1,3-Dichloropropene	75	10.233	10.233	0.000	97	181351	10.0	9.35	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	518296	10.0	10.3	
63 Toluene	92	10.443	10.443	0.000	99	383424	10.0	9.93	
64 2-Nitropropane	43	10.666	10.666	0.000	98	27537	20.0	19.5	
66 4-Methyl-2-pentanone (MIBK	43	10.750	10.750	0.000	96	45306	10.0	10.0	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	81	145884	10.0	9.13	
65 Tetrachloroethene	164	10.806	10.806	0.000	98	145848	10.0	10.0	
69 Ethyl methacrylate	69	10.890	10.890	0.000	87	82376	10.0	10.1	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	91	70425	10.0	9.35	
70 Chlorodibromomethane	129	11.141	11.141	0.000	89	91683	10.0	8.98	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	88	150985	10.0	9.50	
119 n-Butyl acetate	43	11.365	11.365	0.000	93	72858	10.0	10.1	
72 Ethylene Dibromide	107	11.393	11.393	0.000	99	76141	10.0	9.42	
74 2-Hexanone	43	11.490	11.490	0.000	97	36584	10.0	9.49	
S 73 1,3-Dichloropropene, Total	75				0			18.5	
75 1-Chlorohexane	91	11.756	11.756	0.000	97	216515	10.0	10.6	
78 Ethylbenzene	91	11.826	11.826	0.000	95	755654	10.0	9.99	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	85	2000174	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	11.840	11.840	0.000	95	411285	10.0	10.0	
79 1,1,1,2-Tetrachloroethane	131	11.881	11.881	0.000	95	128341	10.0	9.33	
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	97	277605	10.0	9.80	
82 o-Xylene	106	12.356	12.356	0.000	96	235185	10.0	9.64	
83 Styrene	104	12.398	12.398	0.000	92	360462	10.0	9.36	
84 Bromoform	173	12.468	12.468	0.000	97	50670	10.0	8.67	
85 Isopropylbenzene	105	12.636	12.622	0.014	95	704306	10.0	9.93	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	93	167120	10.0	9.97	
88 N-Propylbenzene	91	13.013	13.013	0.000	98	834260	10.0	10.1	
87 Bromobenzene	156	13.055	13.055	0.000	87	157340	10.0	9.83	
89 1,1,2,2-Tetrachloroethane	83	13.083	13.083	0.000	95	90962	10.0	9.33	
91 1,3,5-Trimethylbenzene	105	13.180	13.180	0.000	95	559701	10.0	9.87	
90 2-Chlorotoluene	91	13.194	13.194	0.000	97	553923	10.0	9.81	
92 1,2,3-Trichloropropane	110	13.236	13.236	0.000	85	27338	10.0	8.99	
93 trans-1,4-Dichloro-2-buten	53	13.250	13.250	0.000	93	21962	10.0	8.62	
94 Cyclohexanone	55	13.320	13.320	0.000	88	20129	100.0	93.3	
95 4-Chlorotoluene	91	13.348	13.348	0.000	98	483444	10.0	9.80	
96 tert-Butylbenzene	119	13.502	13.502	0.000	92	511901	10.0	9.87	
97 1,2,4-Trimethylbenzene	105	13.557	13.557	0.000	97	582385	10.0	9.91	
98 sec-Butylbenzene	105	13.669	13.669	0.000	94	819225	10.0	10.1	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	97	656116	10.0	9.91	
100 1,3-Dichlorobenzene	146	13.934	13.935	0.000	98	320896	10.0	9.89	
120 1,2,3-Trimethylbenzene	105	13.990	13.990	0.000	85	546735	10.0	9.58	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.990	0.000	96	1015685	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.004	14.004	0.000	95	333170	10.0	10.1	
103 n-Butylbenzene	134	14.200	14.200	0.000	96	178509	10.0	10.1	
121 Benzyl chloride	126	14.228	14.228	0.000	95	38135	10.0	9.36	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	99	267867	10.0	9.76	
106 n-Nonyl Aldehyde	57	15.150	15.150	0.000	87	35307	10.0	14.2	
105 1,2-Dibromo-3-Chloropropan	157	15.219	15.219	0.000	85	15546	10.0	8.89	
107 1,3,5-Trichlorobenzene	180	15.233	15.233	0.000	98	277533	10.0	10.3	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	95	163106	10.0	10.3	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	94	208915	10.0	9.97	
110 Naphthalene	128	16.239	16.239	0.000	97	248892	10.0	10.8	
111 1,2,3-Trichlorobenzene	180	16.434	16.434	0.000	96	172105	10.0	10.3	
S 112 Xylenes, Total	106				0			19.4	
S 113 Trihalomethanes, Total	1				0			36.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 NewWkMix_00188

Amount Added: 2.00

Units: uL

8260 Surr 25_00066

Amount Added: 2.00

Units: uL

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\\StLouis\\ChromData\\VMSL\\20161020-8778.b\\L1CL6169.D

Injection Date: 20-Oct-2016 15:55:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: ic

Worklist Smp#: 16

Client ID:

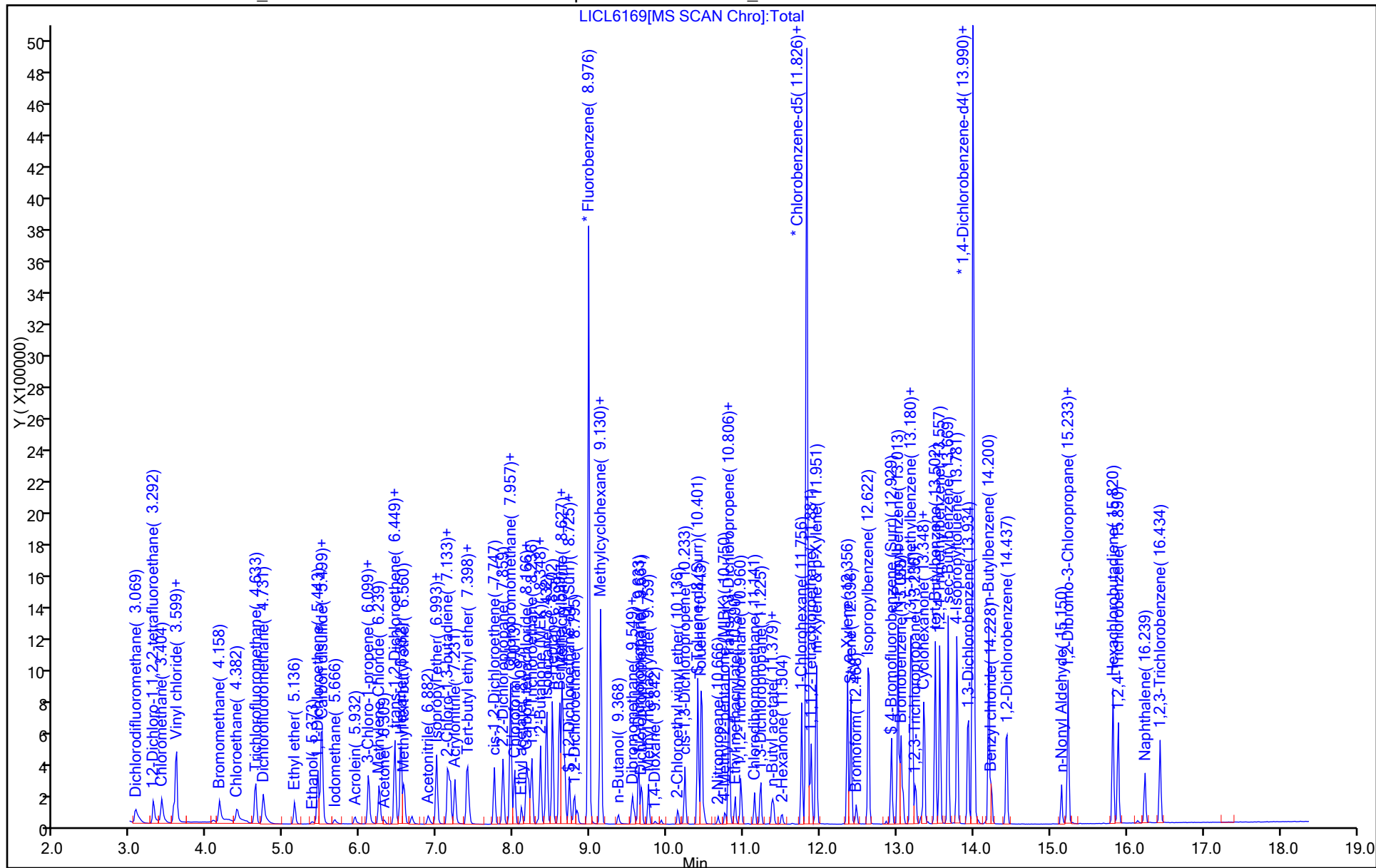
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis

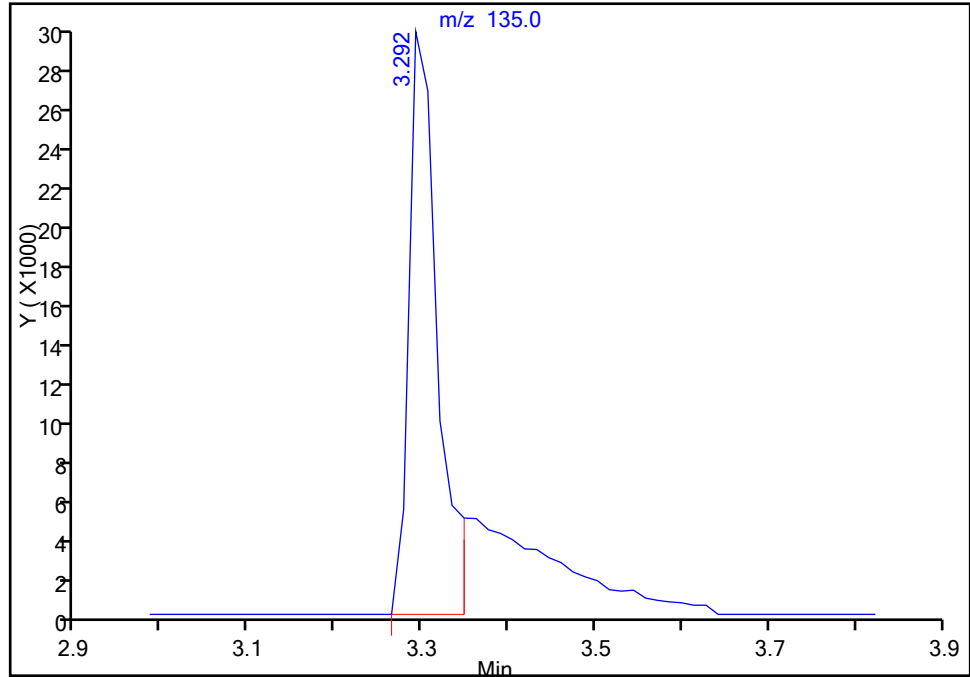
Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D
Injection Date: 20-Oct-2016 15:55:30 Instrument ID: VMSL
Lims ID: ic
Client ID:
Operator ID: ADB ALS Bottle#: 13 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

2 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Signal: 1

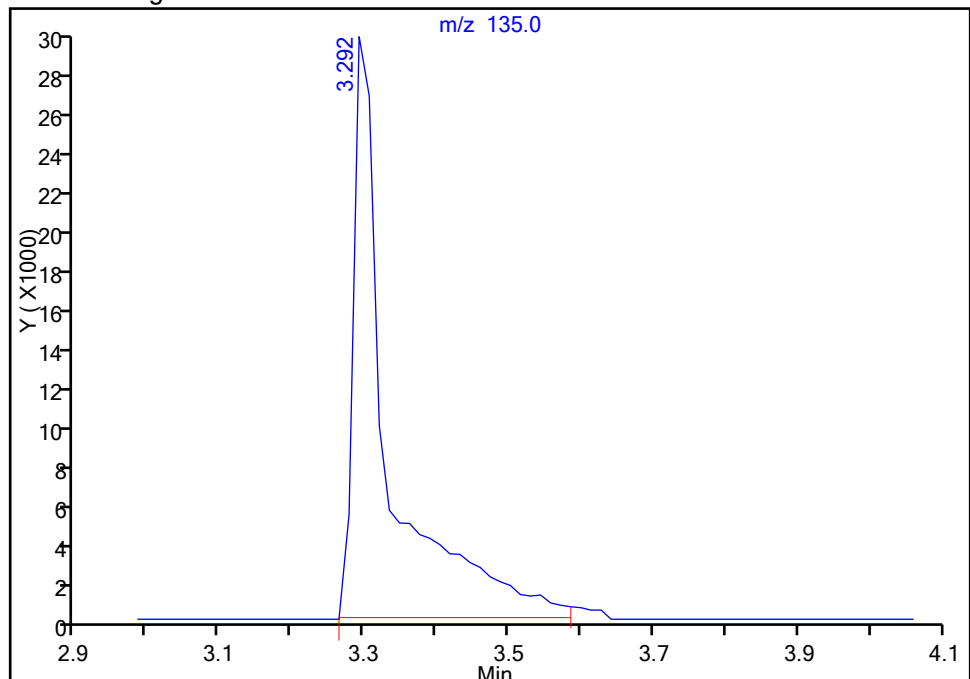
RT: 3.29
Area: 67443
Amount: 7.136935
Amount Units: ug/l

Processing Integration Results



RT: 3.29
Area: 99476
Amount: 9.659219
Amount Units: ug/l

Manual Integration Results



Reviewer: buettnera, 20-Oct-2016 16:17:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Lab Sample ID: ICV 160-275235/17 Calibration Date: 10/20/2016 16:22

Instrument ID: VMSL Calib Start Date: 10/20/2016 11:15

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 10/20/2016 15:55

Lab File ID: LICV6170.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3472	0.1000	58.4	50.0	16.8	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1799	0.1871	0.0100	52.0	50.0	4.0	20.0
Chloromethane	Ave	0.3381	0.3370	0.1000	49.8	50.0	-0.3	20.0
Vinyl chloride	Ave	0.3544	0.3471	0.1000	49.0	50.0	-2.0	20.0
Butadiene	Ave	0.3337	0.2837	0.0100	42.5	50.0	-15.0	20.0
Bromomethane	Ave	0.1888	0.1628	0.1000	43.1	50.0	-13.8	20.0
Chloroethane	Qua		0.1922	0.1000	53.8	50.0	7.6	20.0
Trichlorofluoromethane	Ave	0.4790	0.4325	0.1000	45.1	50.0	-9.7	20.0
Dichlorofluoromethane	Ave	0.5356	0.4745	0.0100	44.3	50.0	-11.4	20.0
Ethyl ether	Ave	0.1091	0.1122	0.0100	51.4	50.0	2.9	20.0
Ethanol	Ave	0.0011	0.0012*	0.0100	2060	2000	3.2	20.0
1,1-Dichloroethene	Ave	0.2534	0.2430	0.1000	47.9	50.0	-4.1	20.0
Carbon disulfide	Ave	0.9467	0.8558	0.1000	45.2	50.0	-9.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2414	0.2259	0.1000	46.8	50.0	-6.4	20.0
Iodomethane	Qua		0.1546	0.0100	50.2	50.0	0.4	20.0
Acrolein	Ave	0.0141	0.0161	0.0010	285	250	14.0	20.0
3-Chloro-1-propene	Ave	0.2616	0.2510	0.0100	48.0	50.0	-4.1	20.0
Isopropyl alcohol	Ave	0.0060	0.0062*	0.0100	524	500	4.9	20.0
Methylene Chloride	Ave	0.2418	0.2312	0.1000	47.8	50.0	-4.4	20.0
Acetone	Lin1		0.0307*	0.1000	46.6	50.0	-6.7	20.0
Methyl acetate	Ave	0.0191	0.0197*	0.1000	258	250	3.1	20.0
trans-1,2-Dichloroethene	Ave	0.2687	0.2729	0.1000	50.8	50.0	1.6	20.0
Hexane	Ave	0.0938	0.0966	0.0100	51.5	50.0	3.0	20.0
Methyl tert-butyl ether	Ave	0.4570	0.4661	0.1000	51.0	50.0	2.0	20.0
Acetonitrile	Ave	0.0126	0.0120	0.0010	476	500	-4.8	20.0
2-Methyl-2-propanol	Ave	0.0073	0.0078*	0.0100	532	500	6.5	20.0
Isopropyl ether	Ave	0.5770	0.6294	0.0100	54.5	50.0	9.1	20.0
2-Chloro-1,3-butadiene	Ave	0.3954	0.3983	0.0100	50.4	50.0	0.7	20.0
1,1-Dichloroethane	Ave	0.4781	0.4549	0.2000	47.6	50.0	-4.8	20.0
Acrylonitrile	Ave	0.0390	0.0398	0.0100	510	500	2.0	20.0
Tert-butyl ethyl ether	Ave	0.5318	0.5529	0.0100	52.0	50.0	4.0	20.0
Vinyl acetate	Ave	0.3194	0.3272	0.0100	51.2	50.0	2.4	20.0
cis-1,2-Dichloroethene	Ave	0.2631	0.2715	0.1000	51.6	50.0	3.2	20.0
2,2-Dichloropropane	Ave	0.4395	0.4233	0.0100	48.2	50.0	-3.7	20.0
Bromochloromethane	Ave	0.0970	0.0959	0.0100	49.4	50.0	-1.2	20.0
Cyclohexane	Ave	0.4623	0.4869	0.1000	52.7	50.0	5.3	20.0
Chloroform	Ave	0.4601	0.4337	0.2000	47.1	50.0	-5.8	20.0
Ethyl acetate	Ave	0.0143	0.0151	0.0100	106	100	5.7	20.0
Carbon tetrachloride	Ave	0.4086	0.3772	0.1000	46.2	50.0	-7.7	20.0
1,1,1-Trichloroethane	Ave	0.4595	0.4326	0.1000	47.1	50.0	-5.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Lab Sample ID: ICV 160-275235/17 Calibration Date: 10/20/2016 16:22

Instrument ID: VMSL Calib Start Date: 10/20/2016 11:15

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 10/20/2016 15:55

Lab File ID: LICV6170.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Butanone (MEK)	Ave	0.0499	0.0457*	0.1000	45.8	50.0	-8.5	20.0
1,1-Dichloropropene	Ave	0.3850	0.4085	0.0100	53.0	50.0	6.1	20.0
Isooctane	Ave	1.122	1.157	0.0100	51.5	50.0	3.1	20.0
n-Heptane	Ave	0.4560	0.4776	0.0100	52.4	50.0	4.7	20.0
Benzene	Ave	1.097	1.094	0.5000	49.9	50.0	-0.2	20.0
Propionitrile	Ave	0.0153	0.0151	0.0010	493	500	-1.3	20.0
Methacrylonitrile	Ave	0.0746	0.0729	0.0100	488	500	-2.3	20.0
Tert-amyl methyl ether	Ave	0.4894	0.4904	0.0100	50.1	50.0	0.2	20.0
Isobutyl alcohol	Ave	0.0027	0.0027	0.0010	1290	1250	3.1	20.0
1,2-Dichloroethane	Ave	0.2544	0.2320	0.1000	45.6	50.0	-8.8	20.0
Methylcyclohexane	Ave	0.4072	0.4088	0.1000	50.2	50.0	0.4	20.0
Trichloroethene	Ave	0.2904	0.2846	0.2000	49.0	50.0	-2.0	20.0
n-Butanol	Qua		0.0029*	0.0100	1380	1250	10.7	20.0
Dibromomethane	Ave	0.1038	0.0993	0.0100	47.8	50.0	-4.4	20.0
Ethyl acrylate	Lin1		0.1433	0.0100	47.9	50.0	-4.1	20.0
1,2-Dichloropropane	Ave	0.2367	0.2422	0.1000	51.2	50.0	2.3	20.0
Bromodichloromethane	Ave	0.2955	0.2916	0.2000	49.3	50.0	-1.3	20.0
Methyl methacrylate	Lin1		0.0967	0.0100	97.3	100	-2.7	20.0
1,4-Dioxane	Ave	0.0012	0.0013	0.0010	1070	1000	7.3	20.0
2-Chloroethyl vinyl ether	Lin1		0.0786	0.0100	48.1	50.0	-3.7	20.0
cis-1,3-Dichloropropene	Ave	0.3389	0.3623	0.2000	53.4	50.0	6.9	20.0
Toluene	Ave	0.9655	1.002	0.4000	51.9	50.0	3.8	20.0
2-Nitropropane	Qua		0.0397	0.0100	98.5	100	-1.5	20.0
4-Methyl-2-pentanone (MIBK)	Qua		0.1418	0.1000	54.0	50.0	8.0	20.0
Tetrachloroethene	Ave	0.3635	0.3689	0.2000	50.7	50.0	1.5	20.0
trans-1,3-Dichloropropene	Ave	0.3996	0.4046	0.1000	50.6	50.0	1.2	20.0
Ethyl methacrylate	Lin1		0.2765	0.0100	47.6	50.0	-4.9	20.0
1,1,2-Trichloroethane	Ave	0.1883	0.1877	0.1000	49.8	50.0	-0.3	20.0
Dibromochloromethane	Ave	0.2552	0.2518	0.1000	49.3	50.0	-1.3	20.0
1,3-Dichloropropane	Ave	0.3973	0.3939	0.0100	49.6	50.0	-0.8	20.0
n-Butyl acetate	Lin1		0.2416	0.0100	46.2	50.0	-7.5	20.0
1,2-Dibromoethane	Ave	0.2020	0.2038	0.1000	50.5	50.0	0.9	20.0
2-Hexanone	Ave	0.0964	0.1008	0.1000	52.3	50.0	4.5	20.0
1-Chlorohexane	Lin1		0.6169	0.0100	52.4	50.0	4.9	20.0
Ethylbenzene	Ave	1.891	1.896	0.1000	50.1	50.0	0.2	20.0
Chlorobenzene	Ave	1.028	1.015	0.5000	49.4	50.0	-1.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3439	0.3396	0.0100	49.4	50.0	-1.3	20.0
m,p-Xylenes	Ave	0.7080	0.7517	0.1000	53.1	50.0	6.2	20.0
o-Xylene	Ave	0.6099	0.6792	0.3000	55.7	50.0	11.4	20.0
Styrene	Ave	0.9625	1.049	0.3000	54.5	50.0	9.0	20.0
Bromoform	Ave	0.2878	0.2846	0.1000	49.4	50.0	-1.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1
 SDG No.: _____
 Lab Sample ID: ICV 160-275235/17 Calibration Date: 10/20/2016 16:22
 Instrument ID: VMSL Calib Start Date: 10/20/2016 11:15
 GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 10/20/2016 15:55
 Lab File ID: LICV6170.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	3.491	3.843	0.1000	55.0	50.0	10.1	20.0
N-Propylbenzene	Ave	4.058	4.517	0.0100	55.6	50.0	11.3	20.0
Bromobenzene	Ave	0.7882	0.7960	0.0100	50.5	50.0	1.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.4801	0.4679	0.3000	48.7	50.0	-2.5	20.0
1,3,5-Trimethylbenzene	Ave	2.793	3.092	0.0100	55.3	50.0	10.7	20.0
2-Chlorotoluene	Ave	2.779	2.811	0.0100	50.6	50.0	1.2	20.0
1,2,3-Trichloropropane	Ave	0.1497	0.1467	0.0100	49.0	50.0	-2.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1254	0.1264	0.0100	50.4	50.0	0.8	20.0
Cyclohexanone	Qua		0.0095	0.0010	489	500	-2.2	20.0
4-Chlorotoluene	Ave	2.429	2.558	0.0100	52.7	50.0	5.3	20.0
tert-Butylbenzene	Ave	2.553	2.807	0.0100	55.0	50.0	9.9	20.0
1,2,4-Trimethylbenzene	Ave	2.893	3.069	0.0100	53.0	50.0	6.1	20.0
sec-Butylbenzene	Ave	3.985	4.283	0.0100	53.7	50.0	7.5	20.0
p-Isopropyltoluene	Ave	3.259	3.555	0.0100	54.5	50.0	9.1	20.0
1,3-Dichlorobenzene	Ave	1.598	1.618	0.6000	50.6	50.0	1.2	20.0
1,2,3-Trimethylbenzene	Ave	2.810	2.868	0.0100	51.0	50.0	2.1	20.0
1,4-Dichlorobenzene	Ave	1.631	1.615	0.5000	49.5	50.0	-1.0	20.0
n-Butylbenzene	Ave	0.8662	0.9552	0.0100	55.1	50.0	10.3	20.0
Benzyl chloride	Ave	0.2006	0.2151	0.0100	53.6	50.0	7.3	20.0
1,2-Dichlorobenzene	Ave	1.352	1.384	0.4000	51.2	50.0	2.4	20.0
n-Nonyl Aldehyde	Lin		0.2471	0.0100	44.5	50.0	-11.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0861	0.0903	0.0500	52.4	50.0	4.9	20.0
1,3,5-Trichlorobenzene	Ave	1.329	1.385	0.0100	52.1	50.0	4.2	20.0
Hexachlorobutadiene	Ave	0.7816	0.8376	0.0100	53.6	50.0	7.2	20.0
1,2,4-Trichlorobenzene	Ave	1.032	1.109	0.2000	53.8	50.0	7.5	20.0
Naphthalene	Qua		1.352	0.0100	52.5	50.0	5.1	20.0
1,2,3-Trichlorobenzene	Ave	0.8238	0.8870	0.0100	53.8	50.0	7.7	20.0
Dibromofluoromethane (Surr)	Ave	0.1939	0.1937	0.0100	49.9	50.0	-0.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2109	0.1938	0.0100	45.9	50.0	-8.1	20.0
Toluene-d8 (Surr)	Ave	1.255	1.334	0.0100	53.2	50.0	6.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8249	0.8787	0.0100	53.3	50.0	6.5	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICV6170.D
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 20-Oct-2016 16:22:30 ALS Bottle#: 14 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: ICV
 Operator ID: ADB Instrument ID: VMSL
 Sublist:
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 21-Oct-2016 09:28:18 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN

Process Host: XAWRK039

First Level Reviewer: buettnera

Date: 20-Oct-2016 16:45:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.069	3.069	0.000	99	999947	50.0	58.4	M
2 1,2-Dichloro-1,1,2,2-tetra	135	3.292	3.292	0.000	100	538866	50.0	52.0	
3 Chloromethane	50	3.404	3.404	0.000	99	970585	50.0	49.8	
4 Vinyl chloride	62	3.558	3.558	0.000	97	999618	50.0	49.0	
122 Butadiene	39	3.599	3.599	0.000	89	817135	50.0	42.5	
5 Bromomethane	94	4.158	4.158	0.000	90	468868	50.0	43.1	
6 Chloroethane	64	4.382	4.382	0.000	99	553439	50.0	53.8	
7 Trichlorofluoromethane	101	4.619	4.619	0.000	99	1245385	50.0	45.1	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	100	1366571	50.0	44.3	
8 Ethyl ether	74	5.136	5.136	0.000	90	323166	50.0	51.4	
11 Ethanol	45	5.373	5.373	0.000	100	134427	2000.0	2063.6	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	98	699642	50.0	47.9	
10 Carbon disulfide	76	5.485	5.485	0.000	99	2464586	50.0	45.2	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	90	650434	50.0	46.8	
13 Iodomethane	142	5.652	5.653	-0.001	99	445222	50.0	50.2	
14 Acrolein	56	5.932	5.918	0.014	100	231413	250.0	284.9	
15 3-Chloro-1-propene	39	6.099	6.099	0.000	93	722827	50.0	48.0	
16 Isopropyl alcohol	45	6.127	6.127	0.000	97	179692	500.0	524.3	
17 Methylene Chloride	84	6.239	6.239	0.000	89	665679	50.0	47.8	
18 Acetone	43	6.309	6.309	0.000	99	88406	50.0	46.6	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	99	786021	50.0	50.8	
20 Methyl acetate	74	6.449	6.449	0.000	97	284039	250.0	257.8	
21 Hexane	86	6.532	6.532	0.000	88	278271	50.0	51.5	
22 Methyl tert-butyl ether	73	6.560	6.560	0.000	89	1342134	50.0	51.0	
24 Acetonitrile	41	6.881	6.882	-0.001	99	344977	500.0	476.2	
25 Isopropyl ether	45	6.993	6.993	0.000	93	1812552	50.0	54.5	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	35	223911	500.0	532.3	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	93	1147005	50.0	50.4	
28 1,1-Dichloroethane	63	7.175	7.175	0.000	97	1310157	50.0	47.6	
29 Acrylonitrile	53	7.231	7.231	0.000	100	1147347	500.0	510.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.384	7.384	0.000	97	1592355	50.0	52.0	
31 Vinyl acetate	43	7.412	7.412	0.000	97	942223	50.0	51.2	
32 cis-1,2-Dichloroethene	96	7.747	7.747	0.000	78	781804	50.0	51.6	
33 2,2-Dichloropropane	77	7.859	7.859	0.000	88	1219140	50.0	48.2	
35 Chlorobromomethane	128	7.957	7.957	0.000	56	276187	50.0	49.4	
34 Cyclohexane	84	7.957	7.957	0.000	87	1402164	50.0	52.7	
36 Chloroform	83	8.013	8.013	0.000	92	1248906	50.0	47.1	
39 Ethyl acetate	45	8.097	8.097	0.000	99	86972	100.0	105.7	
37 Carbon tetrachloride	117	8.166	8.166	0.000	97	1086383	50.0	46.2	
38 Tetrahydrofuran	71	8.180	8.180	0.000	86	78619	100.0	114.2	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.194	0.000	95	557733	50.0	49.9	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	97	1245674	50.0	47.1	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	100	131639	50.0	45.8	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	99	1176369	50.0	53.0	
125 Isooctane	57	8.432	8.432	0.000	100	3331766	50.0	51.5	
117 n-Heptane	43	8.502	8.502	0.000	92	1375352	50.0	52.4	
44 Benzene	78	8.599	8.599	0.000	95	3150915	50.0	49.9	
45 Propionitrile	54	8.613	8.613	0.000	93	433595	500.0	493.3	
46 Methacrylonitrile	41	8.627	8.627	0.000	91	2099071	500.0	488.3	
48 Tert-amyl methyl ether	73	8.655	8.655	0.000	99	1412298	50.0	50.1	
50 Isobutyl alcohol	42	8.725	8.725	0.000	71	196910	1250.0	1288.2	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	92	558072	50.0	45.9	
49 1,2-Dichloroethane	62	8.795	8.795	0.000	98	668049	50.0	45.6	
* 51 Fluorobenzene	96	8.976	8.976	0.000	99	2879836	50.0	50.0	
52 Methylcyclohexane	55	9.130	9.130	0.000	87	1177209	50.0	50.2	
53 Trichloroethene	95	9.130	9.130	0.000	63	819559	50.0	49.0	
54 n-Butanol	56	9.367	9.368	-0.001	87	210516	1250.0	1383.8	
55 Dibromomethane	93	9.549	9.549	0.000	95	285843	50.0	47.8	
124 Ethyl acrylate	55	9.577	9.577	0.000	100	412663	50.0	47.9	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	96	697388	50.0	51.2	
57 Dichlorobromomethane	83	9.661	9.661	0.000	99	839879	50.0	49.3	
58 Methyl methacrylate	69	9.759	9.759	0.000	86	556821	100.0	97.3	
59 1,4-Dioxane	88	9.842	9.842	0.000	92	75508	1000.0	1072.5	
60 2-Chloroethyl vinyl ether	63	10.136	10.136	0.000	92	226374	50.0	48.1	
61 cis-1,3-Dichloropropene	75	10.233	10.233	0.000	97	1043270	50.0	53.4	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	92	2723461	50.0	53.2	
63 Toluene	92	10.443	10.443	0.000	99	2046277	50.0	51.9	
64 2-Nitropropane	43	10.666	10.666	0.000	99	162088	100.0	98.5	
66 4-Methyl-2-pentanone (MIBK	43	10.750	10.750	0.000	96	289557	50.0	54.0	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	86	825964	50.0	50.6	
65 Tetrachloroethene	164	10.806	10.806	0.000	98	753122	50.0	50.7	
69 Ethyl methacrylate	69	10.890	10.890	0.000	87	564356	50.0	47.6	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	90	383071	50.0	49.8	
70 Chlorodibromomethane	129	11.141	11.141	0.000	90	514015	50.0	49.3	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	88	804192	50.0	49.6	
119 n-Butyl acetate	43	11.365	11.365	0.000	94	493149	50.0	46.2	
72 Ethylene Dibromide	107	11.393	11.393	0.000	98	416080	50.0	50.5	
74 2-Hexanone	43	11.490	11.490	0.000	96	205664	50.0	52.3	
75 1-Chlorohexane	91	11.756	11.756	0.000	96	1259303	50.0	52.4	
78 Ethylbenzene	91	11.826	11.826	0.000	97	3869620	50.0	50.1	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	93	2041416	50.0	50.0	
77 Chlorobenzene	112	11.840	11.840	0.000	94	2072051	50.0	49.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
79 1,1,1,2-Tetrachloroethane	131	11.881	11.881	0.000	95	693298	50.0	49.4	
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	97	1534505	50.0	53.1	
82 o-Xylene	106	12.356	12.356	0.000	96	1386485	50.0	55.7	
83 Styrene	104	12.398	12.398	0.000	94	2142414	50.0	54.5	
84 Bromoform	173	12.468	12.468	0.000	97	293794	50.0	49.4	
85 Isopropylbenzene	105	12.636	12.622	0.014	95	3967309	50.0	55.0	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	93	907117	50.0	53.3	
88 N-Propylbenzene	91	13.013	13.013	0.000	98	4662588	50.0	55.6	
87 Bromobenzene	156	13.055	13.055	0.000	87	821772	50.0	50.5	
89 1,1,2,2-Tetrachloroethane	83	13.083	13.083	-0.001	95	482978	50.0	48.7	
91 1,3,5-Trimethylbenzene	105	13.180	13.180	0.000	95	3191470	50.0	55.3	
90 2-Chlorotoluene	91	13.194	13.194	0.000	97	2902315	50.0	50.6	
92 1,2,3-Trichloropropane	110	13.236	13.236	0.000	85	151415	50.0	49.0	
93 trans-1,4-Dichloro-2-buten	53	13.250	13.250	0.000	88	130474	50.0	50.4	
94 Cyclohexanone	55	13.320	13.320	0.000	87	98463	500.0	489.2	
95 4-Chlorotoluene	91	13.348	13.348	0.000	98	2641108	50.0	52.7	
96 tert-Butylbenzene	119	13.501	13.502	-0.001	92	2897792	50.0	55.0	
97 1,2,4-Trimethylbenzene	105	13.557	13.557	0.000	97	3168000	50.0	53.0	
98 sec-Butylbenzene	105	13.669	13.669	0.000	94	4421936	50.0	53.7	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	97	3669662	50.0	54.5	
100 1,3-Dichlorobenzene	146	13.934	13.935	0.000	98	1669893	50.0	50.6	
120 1,2,3-Trimethylbenzene	105	13.990	13.990	0.000	95	2960996	50.0	51.0	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.990	0.000	75	1032338	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.004	14.004	0.000	95	1667235	50.0	49.5	
103 n-Butylbenzene	134	14.200	14.200	0.000	95	986045	50.0	55.1	
121 Benzyl chloride	126	14.242	14.228	0.014	97	222090	50.0	53.6	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	99	1428474	50.0	51.2	
106 n-Nonyl Aldehyde	57	15.150	15.150	0.000	92	255065	50.0	44.5	
105 1,2-Dibromo-3-Chloropropan	157	15.219	15.219	0.000	86	93212	50.0	52.4	
107 1,3,5-Trichlorobenzene	180	15.233	15.233	0.000	98	1429724	50.0	52.1	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	95	864631	50.0	53.6	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	94	1145260	50.0	53.8	
110 Naphthalene	128	16.239	16.239	0.000	97	1395334	50.0	52.5	
111 1,2,3-Trichlorobenzene	180	16.434	16.434	0.000	96	915671	50.0	53.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 Surr 25_00066

Amount Added: 10.00

Units: uL

8260NewICVMix_00179

Amount Added: 10.00

Units: uL

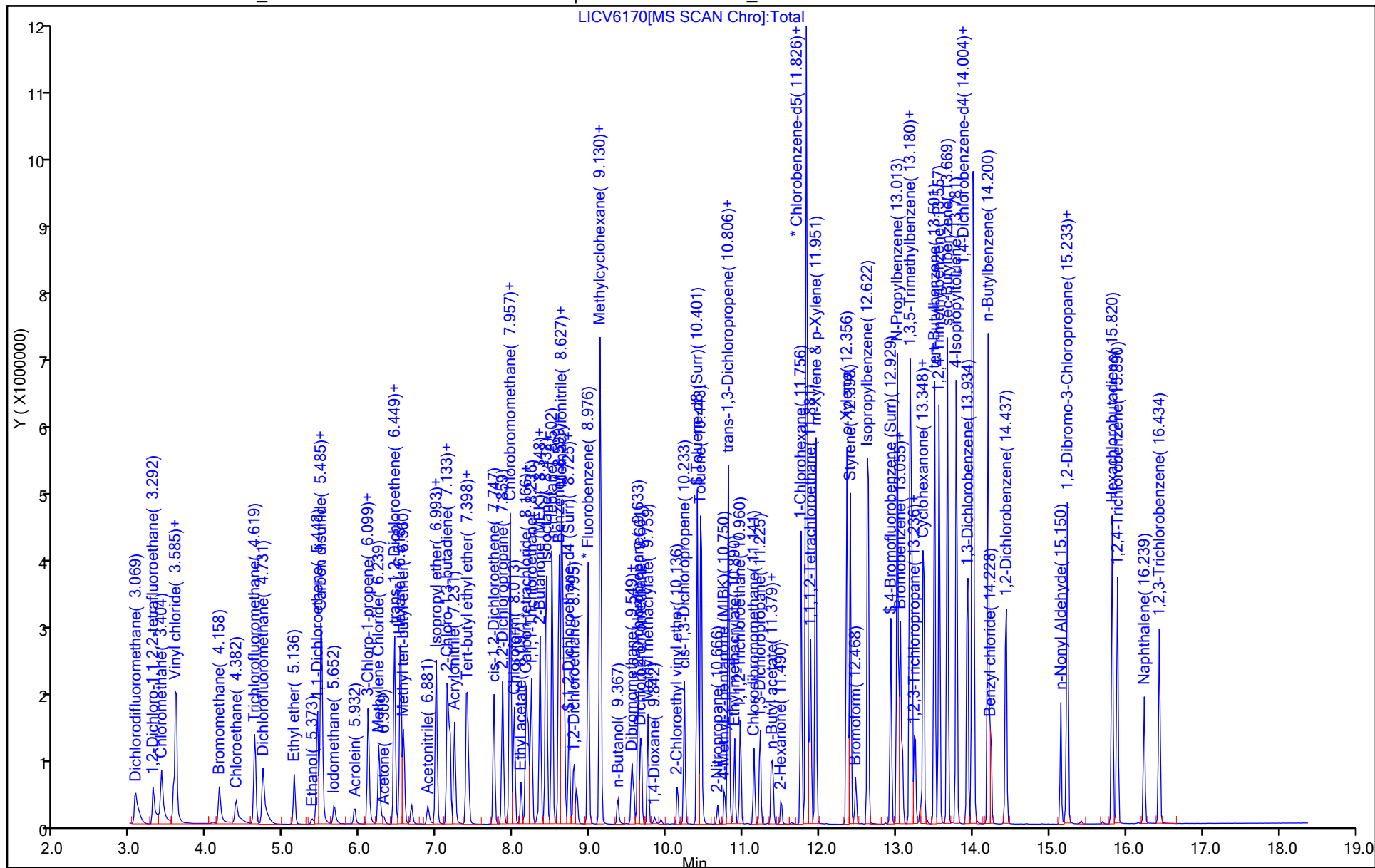
I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

Limit Group: MSV-8260 DoD



TestAmerica St. Louis

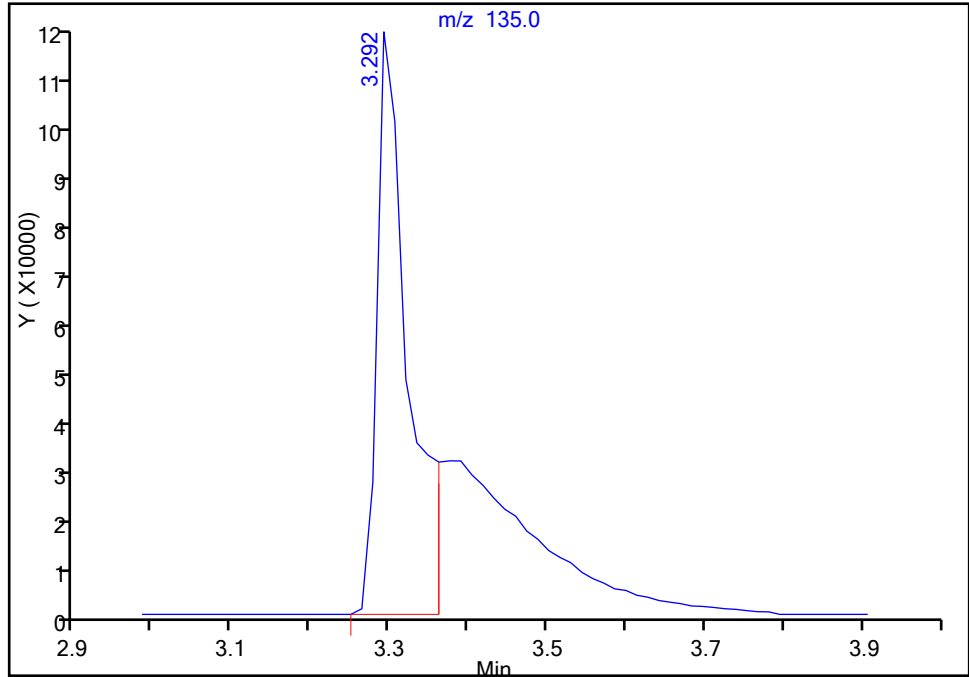
Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICV6170.D
Injection Date: 20-Oct-2016 16:22:30 Instrument ID: VMSL
Lims ID: icv
Client ID:
Operator ID: ADB ALS Bottle#: 14 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

2 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Signal: 1

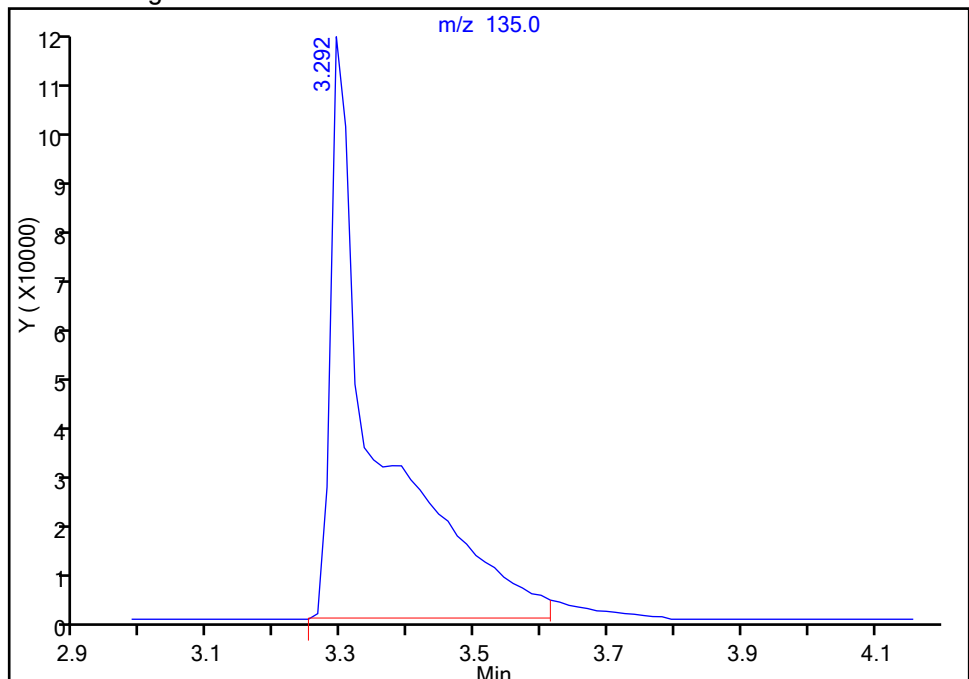
RT: 3.29
Area: 315132
Amount: 30.411105
Amount Units: ug/l

Processing Integration Results



RT: 3.29
Area: 538866
Amount: 52.002051
Amount Units: ug/l

Manual Integration Results



Reviewer: buettnera, 20-Oct-2016 16:45:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Lab Sample ID: CCV 160-275504/4 Calibration Date: 10/21/2016 09:57

Instrument ID: VMSL Calib Start Date: 10/20/2016 11:15

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 10/20/2016 15:55

Lab File ID: LCCV6210.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3478	0.1000	58.5	50.0	17.0	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1799	0.1796	0.0100	49.9	50.0	-0.2	20.0
Chloromethane	Ave	0.3381	0.3258	0.1000	48.2	50.0	-3.7	20.0
Vinyl chloride	Ave	0.3544	0.3424	0.1000	48.3	50.0	-3.4	20.0
Butadiene	Ave	0.3337	0.3384	0.0100	50.7	50.0	1.4	20.0
Bromomethane	Ave	0.1888	0.2188	0.1000	58.0	50.0	15.9	20.0
Chloroethane	Qua		0.1903	0.1000	53.3	50.0	6.5	20.0
Trichlorofluoromethane	Ave	0.4790	0.4927	0.1000	51.4	50.0	2.9	20.0
Dichlorofluoromethane	Ave	0.5356	0.5230	0.0100	48.8	50.0	-2.4	20.0
Ethyl ether	Ave	0.1091	0.1133	0.0100	51.9	50.0	3.9	20.0
Ethanol	Ave	0.0011	0.0012*	0.0100	2080	2000	4.2	20.0
1,1-Dichloroethene	Ave	0.2534	0.2441	0.1000	48.2	50.0	-3.7	20.0
Carbon disulfide	Ave	0.9467	0.9135	0.1000	48.2	50.0	-3.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2414	0.2315	0.1000	48.0	50.0	-4.1	20.0
Iodomethane	Qua		0.0199	0.0100	9.96	50.0	-80.1*	20.0
Acrolein	Ave	0.0141	0.0146	0.0010	259	250	3.6	20.0
3-Chloro-1-propene	Ave	0.2616	0.2594	0.0100	49.6	50.0	-0.9	20.0
Isopropyl alcohol	Ave	0.0060	0.0065*	0.0100	548	500	9.6	20.0
Methylene Chloride	Ave	0.2418	0.2343	0.1000	48.5	50.0	-3.1	20.0
Acetone	Lin1		0.0334*	0.1000	51.3	50.0	2.5	20.0
Methyl acetate	Ave	0.0191	0.0203*	0.1000	265	250	5.9	20.0
trans-1,2-Dichloroethene	Ave	0.2687	0.2572	0.1000	47.9	50.0	-4.3	20.0
Hexane	Ave	0.0938	0.0947	0.0100	50.4	50.0	0.9	20.0
Methyl tert-butyl ether	Ave	0.4570	0.4771	0.1000	52.2	50.0	4.4	20.0
Acetonitrile	Ave	0.0126	0.0128	0.0010	508	500	1.6	20.0
2-Methyl-2-propanol	Ave	0.0073	0.0073*	0.0100	502	500	0.3	20.0
Isopropyl ether	Ave	0.5770	0.5858	0.0100	50.8	50.0	1.5	20.0
2-Chloro-1,3-butadiene	Ave	0.3954	0.4062	0.0100	51.4	50.0	2.7	20.0
1,1-Dichloroethane	Ave	0.4781	0.4655	0.2000	48.7	50.0	-2.6	20.0
Acrylonitrile	Ave	0.0390	0.0418	0.0100	535	500	7.1	20.0
Tert-butyl ethyl ether	Ave	0.5318	0.5579	0.0100	52.5	50.0	4.9	20.0
Vinyl acetate	Ave	0.3194	0.3425	0.0100	53.6	50.0	7.2	20.0
cis-1,2-Dichloroethene	Ave	0.2631	0.2571	0.1000	48.9	50.0	-2.3	20.0
2,2-Dichloropropane	Ave	0.4395	0.4376	0.0100	49.8	50.0	-0.4	20.0
Bromochloromethane	Ave	0.0970	0.1004	0.0100	51.7	50.0	3.4	20.0
Cyclohexane	Ave	0.4623	0.4675	0.1000	50.6	50.0	1.1	20.0
Chloroform	Ave	0.4601	0.4541	0.2000	49.3	50.0	-1.3	20.0
Ethyl acetate	Ave	0.0143	0.0152	0.0100	106	100	6.3	20.0
Carbon tetrachloride	Ave	0.4086	0.4021	0.1000	49.2	50.0	-1.6	20.0
1,1,1-Trichloroethane	Ave	0.4595	0.4545	0.1000	49.5	50.0	-1.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Lab Sample ID: CCV 160-275504/4 Calibration Date: 10/21/2016 09:57

Instrument ID: VMSL Calib Start Date: 10/20/2016 11:15

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 10/20/2016 15:55

Lab File ID: LCCV6210.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Butanone (MEK)	Ave	0.0499	0.0484*	0.1000	48.4	50.0	-3.1	20.0
1,1-Dichloropropene	Ave	0.3850	0.3876	0.0100	50.3	50.0	0.7	20.0
Isooctane	Ave	1.122	1.134	0.0100	50.5	50.0	1.0	20.0
n-Heptane	Ave	0.4560	0.4648	0.0100	51.0	50.0	1.9	20.0
Benzene	Ave	1.097	1.078	0.5000	49.1	50.0	-1.7	20.0
Propionitrile	Ave	0.0153	0.0162	0.0010	529	500	5.9	20.0
Methacrylonitrile	Ave	0.0746	0.0814	0.0100	545	500	9.0	20.0
Tert-amyl methyl ether	Ave	0.4894	0.5142	0.0100	52.5	50.0	5.1	20.0
Isobutyl alcohol	Ave	0.0027	0.0029	0.0010	1380	1250	10.6	20.0
1,2-Dichloroethane	Ave	0.2544	0.2668	0.1000	52.4	50.0	4.9	20.0
Methylcyclohexane	Ave	0.4072	0.4091	0.1000	50.2	50.0	0.5	20.0
Trichloroethene	Ave	0.2904	0.2901	0.2000	49.9	50.0	-0.1	20.0
n-Butanol	Qua		0.0030*	0.0100	1390	1250	11.6	20.0
Dibromomethane	Ave	0.1038	0.1076	0.0100	51.8	50.0	3.6	20.0
Ethyl acrylate	Lin1		0.1360	0.0100	45.7	50.0	-8.7	20.0
1,2-Dichloropropane	Ave	0.2367	0.2357	0.1000	49.8	50.0	-0.4	20.0
Bromodichloromethane	Ave	0.2955	0.3014	0.2000	51.0	50.0	2.0	20.0
Methyl methacrylate	Lin1		0.0973	0.0100	98.0	100	-2.0	20.0
1,4-Dioxane	Ave	0.0012	0.0013	0.0010	1100	1000	9.9	20.0
2-Chloroethyl vinyl ether	Lin1		0.0727	0.0100	44.7	50.0	-10.5	20.0
cis-1,3-Dichloropropene	Ave	0.3389	0.3537	0.2000	52.2	50.0	4.4	20.0
Toluene	Ave	0.9655	0.9594	0.4000	49.7	50.0	-0.6	20.0
2-Nitropropane	Qua		0.0431	0.0100	106	100	6.1	20.0
4-Methyl-2-pentanone (MIBK)	Qua		0.1353	0.1000	51.8	50.0	3.6	20.0
Tetrachloroethene	Ave	0.3635	0.3547	0.2000	48.8	50.0	-2.4	20.0
trans-1,3-Dichloropropene	Ave	0.3996	0.4161	0.1000	52.1	50.0	4.1	20.0
Ethyl methacrylate	Lin1		0.2624	0.0100	45.3	50.0	-9.3	20.0
1,1,2-Trichloroethane	Ave	0.1883	0.1856	0.1000	49.3	50.0	-1.4	20.0
Dibromochloromethane	Ave	0.2552	0.2536	0.1000	49.7	50.0	-0.6	20.0
1,3-Dichloropropane	Ave	0.3973	0.3973	0.0100	50.0	50.0	0.0	20.0
n-Butyl acetate	Lin1		0.2264	0.0100	43.6	50.0	-12.9	20.0
1,2-Dibromoethane	Ave	0.2020	0.2028	0.1000	50.2	50.0	0.4	20.0
2-Hexanone	Ave	0.0964	0.0941*	0.1000	48.8	50.0	-2.4	20.0
1-Chlorohexane	Lin1		0.5569	0.0100	47.5	50.0	-5.0	20.0
Ethylbenzene	Ave	1.891	1.874	0.1000	49.5	50.0	-0.9	20.0
Chlorobenzene	Ave	1.028	0.999	0.5000	48.6	50.0	-2.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3439	0.3310	0.0100	48.1	50.0	-3.8	20.0
m,p-Xylenes	Ave	0.7080	0.7182	0.1000	50.7	50.0	1.4	20.0
o-Xylene	Ave	0.6099	0.6320	0.3000	51.8	50.0	3.6	20.0
Styrene	Ave	0.9625	1.028	0.3000	53.4	50.0	6.8	20.0
Bromoform	Ave	0.2878	0.2779	0.1000	48.3	50.0	-3.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Lab Sample ID: CCV 160-275504/4 Calibration Date: 10/21/2016 09:57

Instrument ID: VMSL Calib Start Date: 10/20/2016 11:15

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 10/20/2016 15:55

Lab File ID: LCCV6210.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	3.491	3.538	0.1000	50.7	50.0	1.3	20.0
N-Propylbenzene	Ave	4.058	4.165	0.0100	51.3	50.0	2.6	20.0
Bromobenzene	Ave	0.7882	0.7513	0.0100	47.7	50.0	-4.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.4801	0.4636	0.3000	48.3	50.0	-3.4	20.0
1,3,5-Trimethylbenzene	Ave	2.793	2.893	0.0100	51.8	50.0	3.6	20.0
2-Chlorotoluene	Ave	2.779	2.715	0.0100	48.8	50.0	-2.3	20.0
1,2,3-Trichloropropane	Ave	0.1497	0.1515	0.0100	50.6	50.0	1.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1254	0.1306	0.0100	52.1	50.0	4.1	20.0
Cyclohexanone	Qua		0.0100	0.0010	508	500	1.7	20.0
4-Chlorotoluene	Ave	2.429	2.443	0.0100	50.3	50.0	0.6	20.0
tert-Butylbenzene	Ave	2.553	2.597	0.0100	50.9	50.0	1.7	20.0
1,2,4-Trimethylbenzene	Ave	2.893	2.943	0.0100	50.9	50.0	1.7	20.0
sec-Butylbenzene	Ave	3.985	4.039	0.0100	50.7	50.0	1.3	20.0
p-Isopropyltoluene	Ave	3.259	3.390	0.0100	52.0	50.0	4.0	20.0
1,3-Dichlorobenzene	Ave	1.598	1.557	0.6000	48.7	50.0	-2.5	20.0
1,2,3-Trimethylbenzene	Ave	2.810	2.829	0.0100	50.3	50.0	0.7	20.0
1,4-Dichlorobenzene	Ave	1.631	1.581	0.5000	48.5	50.0	-3.1	20.0
n-Butylbenzene	Ave	0.8662	0.9016	0.0100	52.0	50.0	4.1	20.0
Benzyl chloride	Ave	0.2006	0.2104	0.0100	52.4	50.0	4.9	20.0
1,2-Dichlorobenzene	Ave	1.352	1.338	0.4000	49.5	50.0	-1.0	20.0
n-Nonyl Aldehyde	Lin		0.2284	0.0100	41.8	50.0	-16.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0861	0.0897	0.0500	52.1	50.0	4.2	20.0
1,3,5-Trichlorobenzene	Ave	1.329	1.355	0.0100	51.0	50.0	2.0	20.0
Hexachlorobutadiene	Ave	0.7816	0.7737	0.0100	49.5	50.0	-1.0	20.0
1,2,4-Trichlorobenzene	Ave	1.032	1.046	0.2000	50.7	50.0	1.4	20.0
Naphthalene	Qua		1.242	0.0100	48.6	50.0	-2.8	20.0
1,2,3-Trichlorobenzene	Ave	0.8238	0.8034	0.0100	48.8	50.0	-2.5	20.0
Dibromofluoromethane (Surr)	Ave	0.1939	0.1980	0.0100	51.1	50.0	2.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2109	0.2260	0.0100	53.6	50.0	7.2	20.0
Toluene-d8 (Surr)	Ave	1.255	1.273	0.0100	50.7	50.0	1.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8249	0.8210	0.0100	49.8	50.0	-0.5	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LCCV6210.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Oct-2016 09:57:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: CCVIS
 Operator ID: ADB Instrument ID: VMSL
 Sublist: chrom-5mL-8260_VMSL*sub1
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 12:46:42 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN

Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 21-Oct-2016 10:27:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.069	3.069	0.000	99	677895	50.0	58.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.292	3.292	0.000	99	349988	50.0	49.9	
3 Chloromethane	50	3.404	3.404	0.000	99	634924	50.0	48.2	
4 Vinyl chloride	62	3.558	3.558	0.000	98	667383	50.0	48.3	
122 Butadiene	39	3.585	3.585	0.000	94	659594	50.0	50.7	
5 Bromomethane	94	4.158	4.158	0.000	91	426480	50.0	58.0	
6 Chloroethane	64	4.382	4.382	0.000	99	370965	50.0	53.3	
7 Trichlorofluoromethane	101	4.619	4.619	0.000	98	960285	50.0	51.4	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	99	1019189	50.0	48.8	
8 Ethyl ether	74	5.136	5.136	0.000	90	220801	50.0	51.9	
11 Ethanol	45	5.373	5.373	0.000	99	91836	2000.0	2083.1	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	98	475783	50.0	48.2	
10 Carbon disulfide	76	5.485	5.485	0.000	99	1780414	50.0	48.2	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	90	451206	50.0	48.0	
13 Iodomethane	142	5.666	5.666	0.000	98	38761	50.0	9.96	
14 Acrolein	56	5.932	5.932	0.000	100	142361	250.0	259.0	
15 3-Chloro-1-propene	39	6.099	6.099	0.000	91	505544	50.0	49.6	
16 Isopropyl alcohol	45	6.127	6.127	0.000	97	127089	500.0	548.0	
17 Methylene Chloride	84	6.239	6.239	0.000	89	456675	50.0	48.5	
18 Acetone	43	6.309	6.309	0.000	100	64990	50.0	51.3	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	99	501286	50.0	47.9	
20 Methyl acetate	74	6.449	6.449	0.000	97	197351	250.0	264.7	
21 Hexane	86	6.518	6.518	0.000	91	184496	50.0	50.4	
22 Methyl tert-butyl ether	73	6.560	6.560	0.000	89	929899	50.0	52.2	
24 Acetonitrile	41	6.882	6.882	0.000	99	249042	500.0	507.9	
25 Isopropyl ether	45	6.993	6.993	0.000	93	1141668	50.0	50.8	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	36	142824	500.0	501.7	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	91	791621	50.0	51.4	
28 1,1-Dichloroethane	63	7.161	7.161	0.000	95	907214	50.0	48.7	
29 Acrylonitrile	53	7.231	7.231	0.000	99	815049	500.0	535.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.384	7.384	0.000	97	1087350	50.0	52.5	
31 Vinyl acetate	43	7.412	7.412	0.000	97	667445	50.0	53.6	
32 cis-1,2-Dichloroethene	96	7.747	7.747	0.000	79	501068	50.0	48.9	
33 2,2-Dichloropropane	77	7.859	7.859	0.000	89	852832	50.0	49.8	
35 Chlorobromomethane	128	7.957	7.957	0.000	57	195634	50.0	51.7	
34 Cyclohexane	84	7.957	7.957	0.000	87	911145	50.0	50.6	
36 Chloroform	83	8.013	8.013	0.000	92	885056	50.0	49.3	
39 Ethyl acetate	45	8.097	8.097	0.000	99	59207	100.0	106.3	
37 Carbon tetrachloride	117	8.166	8.166	0.000	97	783644	50.0	49.2	
38 Tetrahydrofuran	71	8.180	8.180	0.000	85	54323	100.0	116.6	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.194	0.000	95	385896	50.0	51.1	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	97	885760	50.0	49.5	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	100	94274	50.0	48.4	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	98	755480	50.0	50.3	
125 Isooctane	57	8.432	8.432	0.000	100	2209143	50.0	50.5	
117 n-Heptane	43	8.502	8.502	0.000	91	905838	50.0	51.0	
44 Benzene	78	8.599	8.599	0.000	95	2100417	50.0	49.1	
45 Propionitrile	54	8.613	8.613	0.000	97	314860	500.0	529.3	
46 Methacrylonitrile	41	8.627	8.627	0.000	91	1585930	500.0	545.1	
48 Tert-amyl methyl ether	73	8.655	8.655	0.000	98	1002143	50.0	52.5	
50 Isobutyl alcohol	42	8.725	8.725	0.000	69	143075	1250.0	1383.1	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	94	440376	50.0	53.6	
49 1,2-Dichloroethane	62	8.781	8.781	0.000	98	519956	50.0	52.4	
* 51 Fluorobenzene	96	8.976	8.976	0.000	99	1948933	50.0	50.0	
52 Methylcyclohexane	55	9.130	9.130	0.000	88	797277	50.0	50.2	
53 Trichloroethene	95	9.130	9.130	0.000	64	565337	50.0	49.9	
54 n-Butanol	56	9.368	9.368	0.000	90	143749	1250.0	1394.9	
55 Dibromomethane	93	9.549	9.549	0.000	94	209602	50.0	51.8	
124 Ethyl acrylate	55	9.563	9.563	0.000	100	265075	50.0	45.7	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	94	459396	50.0	49.8	
57 Dichlorobromomethane	83	9.661	9.661	0.000	99	587371	50.0	51.0	
58 Methyl methacrylate	69	9.759	9.759	0.000	87	379334	100.0	98.0	
59 1,4-Dioxane	88	9.842	9.842	0.000	93	52345	1000.0	1098.6	
60 2-Chloroethyl vinyl ether	63	10.136	10.136	0.000	92	141658	50.0	44.7	
61 cis-1,3-Dichloropropene	75	10.233	10.233	0.000	96	689276	50.0	52.2	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	1803783	50.0	50.7	
63 Toluene	92	10.443	10.443	0.000	99	1359344	50.0	49.7	
64 2-Nitropropane	43	10.666	10.666	0.000	99	122196	100.0	106.1	
66 4-Methyl-2-pentanone (MIBK	43	10.750	10.750	0.000	96	191708	50.0	51.8	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	89	589541	50.0	52.1	
65 Tetrachloroethene	164	10.806	10.806	0.000	98	502520	50.0	48.8	
69 Ethyl methacrylate	69	10.890	10.890	0.000	87	371869	50.0	45.3	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	92	263020	50.0	49.3	
70 Chlorodibromomethane	129	11.141	11.141	0.000	90	359304	50.0	49.7	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	89	562985	50.0	50.0	
119 n-Butyl acetate	43	11.365	11.365	0.000	94	320761	50.0	43.6	
72 Ethylene Dibromide	107	11.393	11.393	0.000	99	287378	50.0	50.2	
74 2-Hexanone	43	11.490	11.490	0.000	96	133377	50.0	48.8	
75 1-Chlorohexane	91	11.756	11.756	0.000	97	789041	50.0	47.5	
78 Ethylbenzene	91	11.826	11.826	0.000	98	2655763	50.0	49.5	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	94	1416942	50.0	50.0	
77 Chlorobenzene	112	11.840	11.840	0.000	96	1415482	50.0	48.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
79 1,1,1,2-Tetrachloroethane	131	11.881	11.881	0.000	94	469034	50.0	48.1	
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	97	1017619	50.0	50.7	
82 o-Xylene	106	12.356	12.356	0.000	96	895442	50.0	51.8	
83 Styrene	104	12.398	12.398	0.000	94	1456685	50.0	53.4	
84 Bromoform	173	12.468	12.468	0.000	97	211005	50.0	48.3	
85 Isopropylbenzene	105	12.622	12.622	0.000	97	2686524	50.0	50.7	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	91	623438	50.0	49.8	
88 N-Propylbenzene	91	13.013	13.013	0.000	98	3162499	50.0	51.3	
87 Bromobenzene	156	13.055	13.055	0.000	88	570462	50.0	47.7	
89 1,1,2,2-Tetrachloroethane	83	13.083	13.083	0.000	96	352038	50.0	48.3	
91 1,3,5-Trimethylbenzene	105	13.180	13.180	0.000	95	2196664	50.0	51.8	
90 2-Chlorotoluene	91	13.194	13.194	0.000	96	2061383	50.0	48.8	
92 1,2,3-Trichloropropane	110	13.236	13.236	0.000	85	114999	50.0	50.6	
93 trans-1,4-Dichloro-2-buten	53	13.250	13.250	0.000	95	99147	50.0	52.1	
94 Cyclohexanone	55	13.320	13.320	0.000	87	75630	500.0	508.5	
95 4-Chlorotoluene	91	13.348	13.348	0.000	99	1855448	50.0	50.3	
96 tert-Butylbenzene	119	13.502	13.502	0.000	93	1971901	50.0	50.9	
97 1,2,4-Trimethylbenzene	105	13.557	13.557	0.000	98	2234742	50.0	50.9	
98 sec-Butylbenzene	105	13.669	13.669	0.000	94	3066799	50.0	50.7	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	97	2574289	50.0	52.0	
100 1,3-Dichlorobenzene	146	13.934	13.934	0.000	98	1182576	50.0	48.7	
120 1,2,3-Trimethylbenzene	105	13.990	13.990	0.000	95	2148022	50.0	50.3	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.990	0.000	76	759342	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.004	14.004	0.000	94	1200412	50.0	48.5	
103 n-Butylbenzene	134	14.200	14.200	0.000	96	684622	50.0	52.0	
121 Benzyl chloride	126	14.242	14.242	0.000	96	159738	50.0	52.4	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	99	1016303	50.0	49.5	
106 n-Nonyl Aldehyde	57	15.150	15.150	0.000	91	173396	50.0	41.8	
105 1,2-Dibromo-3-Chloropropan	157	15.219	15.219	0.000	84	68100	50.0	52.1	
107 1,3,5-Trichlorobenzene	180	15.233	15.233	0.000	98	1028785	50.0	51.0	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	96	587507	50.0	49.5	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	94	794191	50.0	50.7	
110 Naphthalene	128	16.239	16.239	0.000	97	943112	50.0	48.6	
111 1,2,3-Trichlorobenzene	180	16.434	16.434	0.000	96	610069	50.0	48.8	

Reagents:

8260 NewWkMix_00188

Amount Added: 10.00

Units: uL

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00066

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\\StLouis\\ChromData\\VMSL\\20161021-8795.b\\LCCV6210.D

Injection Date: 21-Oct-2016 09:57:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: CCV

Worklist Smp#: 4

Client ID:

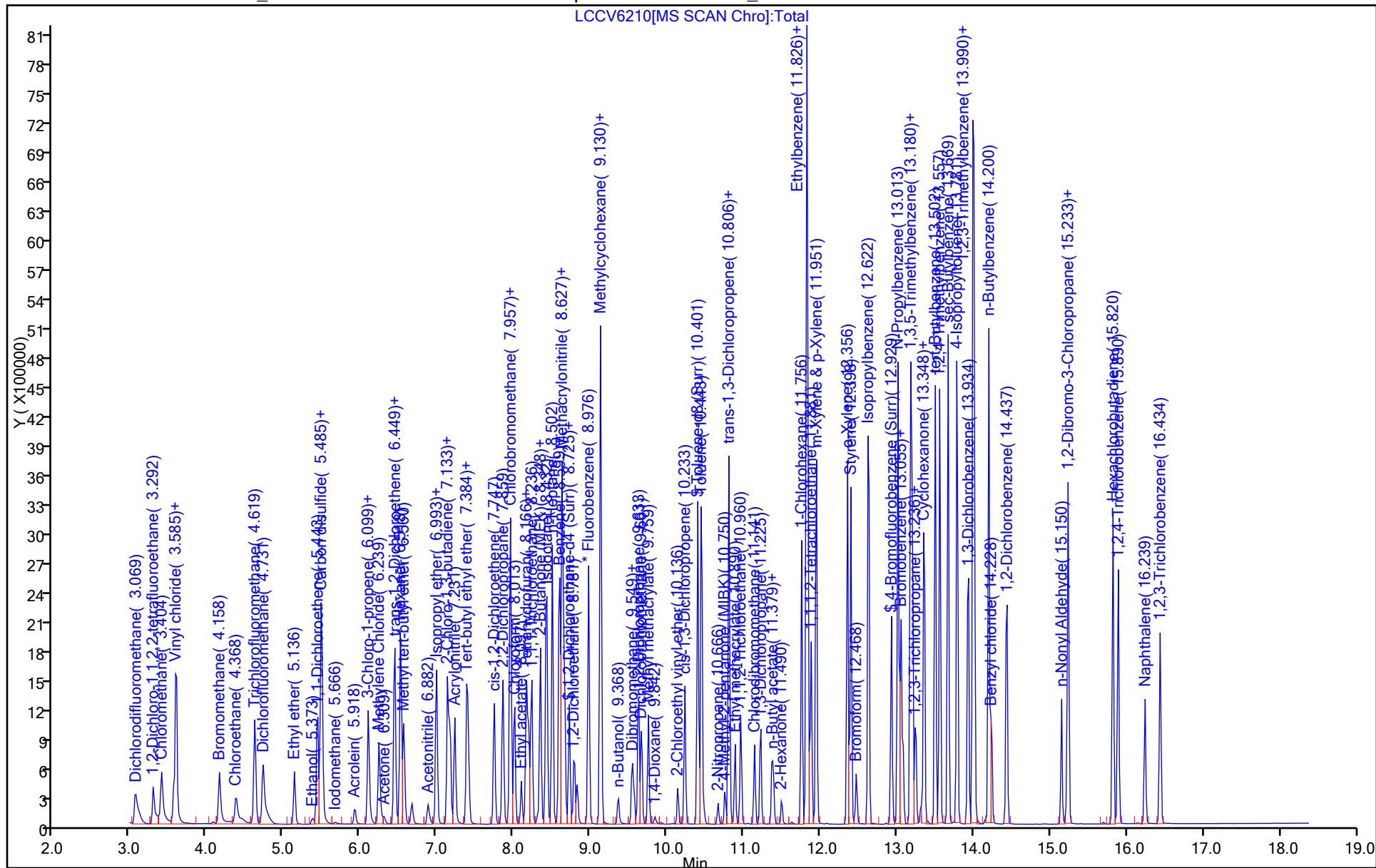
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Lab Sample ID: CCVC 160-275504/21 Calibration Date: 10/21/2016 17:04

Instrument ID: VMSL Calib Start Date: 10/20/2016 11:15

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 10/20/2016 15:55

Lab File ID: LSMP6227.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.3430	0.1000	57.6	50.0	15.2	50.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1799	0.1697	0.0100	47.1	50.0	-5.7	50.0
Chloromethane	Ave	0.3381	0.2563	0.1000	37.9	50.0	-24.2	50.0
Vinyl chloride	Ave	0.3544	0.3030	0.1000	42.8	50.0	-14.5	50.0
Butadiene	Ave	0.3337	0.3014	0.0100	45.2	50.0	-9.7	50.0
Bromomethane	Ave	0.1888	0.0314*	0.1000	8.31	50.0	-83.4*	50.0
Chloroethane	Qua		0.1851	0.1000	51.8	50.0	3.5	50.0
Trichlorofluoromethane	Ave	0.4790	0.4945	0.1000	51.6	50.0	3.2	50.0
Dichlorofluoromethane	Ave	0.5356	0.5351	0.0100	50.0	50.0	-0.0	50.0
Ethyl ether	Ave	0.1091	0.1119	0.0100	51.3	50.0	2.6	50.0
Ethanol	Ave	0.0011	0.0011*	0.0100	1980	2000	-1.1	50.0
1,1-Dichloroethene	Ave	0.2534	0.2507	0.1000	49.5	50.0	-1.1	50.0
Carbon disulfide	Ave	0.9467	0.9346	0.1000	49.4	50.0	-1.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2414	0.2394	0.1000	49.6	50.0	-0.8	50.0
Iodomethane	Qua		0.0457	0.0100	18.1	50.0	-63.7*	50.0
Acrolein	Ave	0.0141	0.0129	0.0010	229	250	-8.3	50.0
3-Chloro-1-propene	Ave	0.2616	0.2658	0.0100	50.8	50.0	1.6	50.0
Isopropyl alcohol	Ave	0.0060	0.0062*	0.0100	520	500	4.1	50.0
Methylene Chloride	Ave	0.2418	0.2337	0.1000	48.3	50.0	-3.3	50.0
Acetone	Lin1		0.0322*	0.1000	49.2	50.0	-1.6	50.0
Methyl acetate	Ave	0.0191	0.0199*	0.1000	260	250	3.9	50.0
trans-1,2-Dichloroethene	Ave	0.2687	0.2622	0.1000	48.8	50.0	-2.4	50.0
Hexane	Ave	0.0938	0.0974	0.0100	51.9	50.0	3.8	50.0
Methyl tert-butyl ether	Ave	0.4570	0.4726	0.1000	51.7	50.0	3.4	50.0
Acetonitrile	Ave	0.0126	0.0123	0.0010	490	500	-1.9	50.0
2-Methyl-2-propanol	Ave	0.0073	0.0075*	0.0100	515	500	3.1	50.0
Isopropyl ether	Ave	0.5770	0.5980	0.0100	51.8	50.0	3.6	50.0
2-Chloro-1,3-butadiene	Ave	0.3954	0.4119	0.0100	52.1	50.0	4.2	50.0
1,1-Dichloroethane	Ave	0.4781	0.4732	0.2000	49.5	50.0	-1.0	50.0
Acrylonitrile	Ave	0.0390	0.0406	0.0100	520	500	4.0	50.0
Tert-butyl ethyl ether	Ave	0.5318	0.5597	0.0100	52.6	50.0	5.3	50.0
Vinyl acetate	Ave	0.3194	0.3283	0.0100	51.4	50.0	2.8	50.0
cis-1,2-Dichloroethene	Ave	0.2631	0.2594	0.1000	49.3	50.0	-1.4	50.0
2,2-Dichloropropane	Ave	0.4395	0.4220	0.0100	48.0	50.0	-4.0	50.0
Bromochloromethane	Ave	0.0970	0.0988	0.0100	50.9	50.0	1.8	50.0
Cyclohexane	Ave	0.4623	0.4800	0.1000	51.9	50.0	3.8	50.0
Chloroform	Ave	0.4601	0.4567	0.2000	49.6	50.0	-0.7	50.0
Ethyl acetate	Ave	0.0143	0.0150	0.0100	105	100	4.8	50.0
Carbon tetrachloride	Ave	0.4086	0.4121	0.1000	50.4	50.0	0.8	50.0
1,1,1-Trichloroethane	Ave	0.4595	0.4632	0.1000	50.4	50.0	0.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Lab Sample ID: CCVC 160-275504/21 Calibration Date: 10/21/2016 17:04

Instrument ID: VMSL Calib Start Date: 10/20/2016 11:15

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 10/20/2016 15:55

Lab File ID: LSMP6227.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Butanone (MEK)	Ave	0.0499	0.0467*	0.1000	46.8	50.0	-6.4	50.0
1,1-Dichloropropene	Ave	0.3850	0.3929	0.0100	51.0	50.0	2.0	50.0
Isooctane	Ave	1.122	1.164	0.0100	51.8	50.0	3.7	50.0
n-Heptane	Ave	0.4560	0.4730	0.0100	51.9	50.0	3.7	50.0
Benzene	Ave	1.097	1.080	0.5000	49.2	50.0	-1.5	50.0
Propionitrile	Ave	0.0153	0.0157	0.0010	513	500	2.6	50.0
Methacrylonitrile	Ave	0.0746	0.0793	0.0100	531	500	6.3	50.0
Tert-amyl methyl ether	Ave	0.4894	0.5117	0.0100	52.3	50.0	4.6	50.0
Isobutyl alcohol	Ave	0.0027	0.0027	0.0010	1270	1250	1.9	50.0
1,2-Dichloroethane	Ave	0.2544	0.2649	0.1000	52.1	50.0	4.1	50.0
Methylcyclohexane	Ave	0.4072	0.4176	0.1000	51.3	50.0	2.5	50.0
Trichloroethene	Ave	0.2904	0.2900	0.2000	49.9	50.0	-0.2	50.0
n-Butanol	Qua		0.0027*	0.0100	1280	1250	2.8	50.0
Dibromomethane	Ave	0.1038	0.1055	0.0100	50.8	50.0	1.6	50.0
Ethyl acrylate	Lin1		0.1349	0.0100	45.3	50.0	-9.4	50.0
1,2-Dichloropropane	Ave	0.2367	0.2395	0.1000	50.6	50.0	1.2	50.0
Bromodichloromethane	Ave	0.2955	0.3000	0.2000	50.8	50.0	1.5	50.0
Methyl methacrylate	Lin1		0.0958	0.0100	96.5	100	-3.5	50.0
1,4-Dioxane	Ave	0.0012	0.0013	0.0010	1030	1000	2.9	50.0
2-Chloroethyl vinyl ether	Lin1		0.0241	0.0100	16.9	50.0	-66.3*	50.0
cis-1,3-Dichloropropene	Ave	0.3389	0.3440	0.2000	50.8	50.0	1.5	50.0
Toluene	Ave	0.9655	0.9825	0.4000	50.9	50.0	1.8	50.0
2-Nitropropane	Qua		0.0445	0.0100	109	100	9.0	50.0
4-Methyl-2-pentanone (MIBK)	Qua		0.1375	0.1000	52.5	50.0	5.0	50.0
Tetrachloroethene	Ave	0.3635	0.3627	0.2000	49.9	50.0	-0.2	50.0
trans-1,3-Dichloropropene	Ave	0.3996	0.4209	0.1000	52.7	50.0	5.3	50.0
Ethyl methacrylate	Lin1		0.2670	0.0100	46.1	50.0	-7.9	50.0
1,1,2-Trichloroethane	Ave	0.1883	0.1897	0.1000	50.4	50.0	0.7	50.0
Dibromochloromethane	Ave	0.2552	0.2593	0.1000	50.8	50.0	1.6	50.0
1,3-Dichloropropane	Ave	0.3973	0.3985	0.0100	50.1	50.0	0.3	50.0
n-Butyl acetate	Lin1		0.2294	0.0100	44.1	50.0	-11.8	50.0
1,2-Dibromoethane	Ave	0.2020	0.2067	0.1000	51.2	50.0	2.4	50.0
2-Hexanone	Ave	0.0964	0.0942*	0.1000	48.9	50.0	-2.2	50.0
1-Chlorohexane	Lin1		0.5624	0.0100	48.0	50.0	-4.1	50.0
Ethylbenzene	Ave	1.891	1.905	0.1000	50.4	50.0	0.7	50.0
Chlorobenzene	Ave	1.028	1.010	0.5000	49.1	50.0	-1.8	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3439	0.3431	0.0100	49.9	50.0	-0.2	50.0
m,p-Xylenes	Ave	0.7080	0.7257	0.1000	51.2	50.0	2.5	50.0
o-Xylene	Ave	0.6099	0.6373	0.3000	52.2	50.0	4.5	50.0
Styrene	Ave	0.9625	1.029	0.3000	53.5	50.0	6.9	50.0
Bromoform	Ave	0.2878	0.2923	0.1000	50.8	50.0	1.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1
 SDG No.: _____
 Lab Sample ID: CCVC 160-275504/21 Calibration Date: 10/21/2016 17:04
 Instrument ID: VMSL Calib Start Date: 10/20/2016 11:15
 GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 10/20/2016 15:55
 Lab File ID: LSMP6227.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	3.491	3.705	0.1000	53.1	50.0	6.1	50.0
N-Propylbenzene	Ave	4.058	4.298	0.0100	53.0	50.0	5.9	50.0
Bromobenzene	Ave	0.7882	0.7906	0.0100	50.2	50.0	0.3	50.0
1,1,2,2-Tetrachloroethane	Ave	0.4801	0.4873	0.3000	50.8	50.0	1.5	50.0
1,3,5-Trimethylbenzene	Ave	2.793	2.970	0.0100	53.2	50.0	6.3	50.0
2-Chlorotoluene	Ave	2.779	2.822	0.0100	50.8	50.0	1.5	50.0
1,2,3-Trichloropropane	Ave	0.1497	0.1552	0.0100	51.8	50.0	3.7	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1254	0.1170	0.0100	46.6	50.0	-6.7	50.0
Cyclohexanone	Qua		0.0102	0.0010	519	500	3.8	50.0
4-Chlorotoluene	Ave	2.429	2.499	0.0100	51.5	50.0	2.9	50.0
tert-Butylbenzene	Ave	2.553	2.697	0.0100	52.8	50.0	5.6	50.0
1,2,4-Trimethylbenzene	Ave	2.893	3.011	0.0100	52.0	50.0	4.1	50.0
sec-Butylbenzene	Ave	3.985	4.204	0.0100	52.7	50.0	5.5	50.0
p-Isopropyltoluene	Ave	3.259	3.452	0.0100	53.0	50.0	5.9	50.0
1,3-Dichlorobenzene	Ave	1.598	1.577	0.6000	49.3	50.0	-1.3	50.0
1,2,3-Trimethylbenzene	Ave	2.810	2.861	0.0100	50.9	50.0	1.8	50.0
1,4-Dichlorobenzene	Ave	1.631	1.590	0.5000	48.7	50.0	-2.5	50.0
n-Butylbenzene	Ave	0.8662	0.8757	0.0100	50.5	50.0	1.1	50.0
Benzyl chloride	Ave	0.2006	0.1824	0.0100	45.5	50.0	-9.0	50.0
1,2-Dichlorobenzene	Ave	1.352	1.358	0.4000	50.2	50.0	0.5	50.0
n-Nonyl Aldehyde	Lin		0.2219	0.0100	40.9	50.0	-18.2	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.0861	0.0916	0.0500	53.2	50.0	6.4	50.0
1,3,5-Trichlorobenzene	Ave	1.329	1.293	0.0100	48.6	50.0	-2.7	50.0
Hexachlorobutadiene	Ave	0.7816	0.7231	0.0100	46.3	50.0	-7.5	50.0
1,2,4-Trichlorobenzene	Ave	1.032	0.9657	0.2000	46.8	50.0	-6.4	50.0
Naphthalene	Qua		1.140	0.0100	44.9	50.0	-10.2	50.0
1,2,3-Trichlorobenzene	Ave	0.8238	0.7405	0.0100	44.9	50.0	-10.1	50.0
Dibromofluoromethane (Surr)	Ave	0.1939	0.2023	0.0100	52.2	50.0	4.3	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2109	0.2200	0.0100	52.2	50.0	4.3	50.0
Toluene-d8 (Surr)	Ave	1.255	1.278	0.0100	50.9	50.0	1.9	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8249	0.8306	0.0100	50.3	50.0	0.7	50.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSP6227.D
 Lims ID: ccvc
 Client ID:
 Sample Type: CCVC
 Inject. Date: 21-Oct-2016 17:04:30 ALS Bottle#: 18 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0008795-021
 Misc. Info.: CCVC
 Operator ID: ADB Instrument ID: VMSL
 Sublist: chrom-5mL-8260_VMSL*sub1
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 12:47:16 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN

Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:38:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.055	3.055	0.000	99	707417	50.0	57.6	M
2 1,2-Dichloro-1,1,2,2-tetra	135	3.292	3.292	0.000	99	349938	50.0	47.1	
3 Chloromethane	50	3.404	3.404	0.000	99	528642	50.0	37.9	
4 Vinyl chloride	62	3.558	3.558	0.000	97	624994	50.0	42.8	
122 Butadiene	39	3.586	3.586	0.000	93	621720	50.0	45.2	
5 Bromomethane	94	4.158	4.158	0.000	92	64716	50.0	8.31	
6 Chloroethane	64	4.382	4.382	0.000	99	381848	50.0	51.8	
7 Trichlorofluoromethane	101	4.619	4.619	0.000	99	1020017	50.0	51.6	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	100	1103820	50.0	50.0	
8 Ethyl ether	74	5.136	5.136	0.000	90	230775	50.0	51.3	
11 Ethanol	45	5.373	5.373	0.000	99	92260	2000.0	1977.3	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	98	517128	50.0	49.5	
10 Carbon disulfide	76	5.485	5.485	0.000	99	1927941	50.0	49.4	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	90	493740	50.0	49.6	
13 Iodomethane	142	5.653	5.653	0.000	99	94317	50.0	18.1	
S 26 1,2-Dichloroethene, Total	96				0			98.1	
14 Acrolein	56	5.932	5.932	0.000	99	133393	250.0	229.3	
15 3-Chloro-1-propene	39	6.100	6.100	0.000	91	548174	50.0	50.8	
16 Isopropyl alcohol	45	6.128	6.128	0.000	97	127713	500.0	520.3	
17 Methylene Chloride	84	6.239	6.239	0.000	90	482018	50.0	48.3	
18 Acetone	43	6.309	6.309	0.000	100	66329	50.0	49.2	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	99	540886	50.0	48.8	
20 Methyl acetate	74	6.449	6.449	0.000	97	205000	250.0	259.8	
21 Hexane	86	6.519	6.519	0.000	89	200933	50.0	51.9	
22 Methyl tert-butyl ether	73	6.560	6.560	0.000	89	974898	50.0	51.7	
24 Acetonitrile	41	6.882	6.882	0.000	99	254532	500.0	490.5	
25 Isopropyl ether	45	6.993	6.993	0.000	92	1233505	50.0	51.8	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	35	155284	500.0	515.4	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	90	849738	50.0	52.1	
28 1,1-Dichloroethane	63	7.161	7.161	0.000	95	976169	50.0	49.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	7.231	7.231	0.000	99	837391	500.0	519.8	
30 Tert-butyl ethyl ether	59	7.384	7.384	0.000	97	1154505	50.0	52.6	
31 Vinyl acetate	43	7.412	7.412	0.000	97	677160	50.0	51.4	
32 cis-1,2-Dichloroethene	96	7.748	7.748	0.000	79	535130	50.0	49.3	
33 2,2-Dichloropropane	77	7.859	7.859	0.000	89	870538	50.0	48.0	
35 Chlorobromomethane	128	7.957	7.957	0.000	55	203828	50.0	50.9	
34 Cyclohexane	84	7.957	7.957	0.000	88	990104	50.0	51.9	
36 Chloroform	83	8.013	8.013	0.000	93	942110	50.0	49.6	
39 Ethyl acetate	45	8.097	8.097	0.000	99	61803	100.0	104.8	
37 Carbon tetrachloride	117	8.167	8.167	0.000	97	849970	50.0	50.4	
38 Tetrahydrofuran	71	8.181	8.181	0.000	84	52780	100.0	107.0	
\$ 41 Dibromofluoromethane (Surr	113	8.195	8.195	0.000	95	417346	50.0	52.2	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	97	955392	50.0	50.4	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	99	96422	50.0	46.8	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	98	810399	50.0	51.0	
125 Isooctane	57	8.432	8.432	0.000	100	2400691	50.0	51.8	
117 n-Heptane	43	8.502	8.502	0.000	91	975777	50.0	51.9	
44 Benzene	78	8.600	8.600	0.000	95	2228189	50.0	49.2	
45 Propionitrile	54	8.614	8.614	0.000	96	323132	500.0	513.2	
46 Methacrylonitrile	41	8.627	8.627	0.000	92	1636018	500.0	531.3	
48 Tert-amyl methyl ether	73	8.655	8.655	0.000	98	1055602	50.0	52.3	
50 Isobutyl alcohol	42	8.725	8.725	0.000	66	139415	1250.0	1273.4	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	94	453734	50.0	52.2	
49 1,2-Dichloroethane	62	8.795	8.795	0.000	98	546410	50.0	52.1	
* 51 Fluorobenzene	96	8.977	8.977	0.000	99	2062765	50.0	50.0	
52 Methylcyclohexane	55	9.130	9.130	0.000	88	861371	50.0	51.3	
53 Trichloroethene	95	9.130	9.130	0.000	64	598121	50.0	49.9	
54 n-Butanol	56	9.368	9.368	0.000	90	138835	1250.0	1284.7	
55 Dibromomethane	93	9.549	9.549	0.000	95	217514	50.0	50.8	
124 Ethyl acrylate	55	9.563	9.563	0.000	100	278300	50.0	45.3	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	94	493935	50.0	50.6	
57 Dichlorobromomethane	83	9.661	9.661	0.000	99	618789	50.0	50.8	
58 Methyl methacrylate	69	9.759	9.759	0.000	87	395037	100.0	96.5	
59 1,4-Dioxane	88	9.843	9.843	0.000	93	51881	1000.0	1028.8	
60 2-Chloroethyl vinyl ether	63	10.136	10.136	0.000	93	49622	50.0	16.9	
61 cis-1,3-Dichloropropene	75	10.234	10.234	0.000	96	709566	50.0	50.8	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	1852562	50.0	50.9	
63 Toluene	92	10.443	10.443	0.000	99	1424265	50.0	50.9	
64 2-Nitropropane	43	10.667	10.667	0.000	99	128884	100.0	109.0	
66 4-Methyl-2-pentanone (MIBK	43	10.750	10.750	0.000	97	199247	50.0	52.5	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	89	610140	50.0	52.7	
65 Tetrachloroethene	164	10.806	10.806	0.000	98	525703	50.0	49.9	
69 Ethyl methacrylate	69	10.890	10.890	0.000	87	387097	50.0	46.1	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	92	274955	50.0	50.4	
70 Chlorodibromomethane	129	11.141	11.141	0.000	90	375863	50.0	50.8	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	89	577582	50.0	50.1	
119 n-Butyl acetate	43	11.365	11.365	0.000	94	332547	50.0	44.1	
72 Ethylene Dibromide	107	11.393	11.393	0.000	99	299689	50.0	51.2	
74 2-Hexanone	43	11.491	11.491	0.000	96	136616	50.0	48.9	
S 73 1,3-Dichloropropene, Total	75				0			103.4	
75 1-Chlorohexane	91	11.756	11.756	0.000	97	815248	50.0	48.0	
78 Ethylbenzene	91	11.826	11.826	0.000	98	2761136	50.0	50.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	92	1449587	50.0	50.0	
77 Chlorobenzene	112	11.840	11.840	0.000	96	1464368	50.0	49.1	
79 1,1,1,2-Tetrachloroethane	131	11.882	11.882	0.000	93	497333	50.0	49.9	
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	97	1051969	50.0	51.2	
82 o-Xylene	106	12.356	12.356	0.000	96	923776	50.0	52.2	
83 Styrene	104	12.398	12.398	0.000	94	1492038	50.0	53.5	
84 Bromoform	173	12.468	12.468	0.000	96	216804	50.0	50.8	
85 Isopropylbenzene	105	12.622	12.622	0.000	97	2747551	50.0	53.1	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	92	616004	50.0	50.3	
88 N-Propylbenzene	91	13.013	13.013	0.000	98	3187938	50.0	53.0	
87 Bromobenzene	156	13.055	13.055	0.000	88	586334	50.0	50.2	
89 1,1,2,2-Tetrachloroethane	83	13.083	13.083	0.000	96	361413	50.0	50.8	
91 1,3,5-Trimethylbenzene	105	13.180	13.180	0.000	95	2202531	50.0	53.2	
90 2-Chlorotoluene	91	13.194	13.194	0.000	96	2092846	50.0	50.8	
92 1,2,3-Trichloropropane	110	13.236	13.236	0.000	86	115112	50.0	51.8	
93 trans-1,4-Dichloro-2-buten	53	13.250	13.250	0.000	93	86746	50.0	46.6	
94 Cyclohexanone	55	13.320	13.320	0.000	88	75600	500.0	519.1	
95 4-Chlorotoluene	91	13.348	13.348	0.000	99	1853657	50.0	51.5	
96 tert-Butylbenzene	119	13.502	13.502	0.000	93	2000201	50.0	52.8	
97 1,2,4-Trimethylbenzene	105	13.558	13.558	0.000	97	2233388	50.0	52.0	
98 sec-Butylbenzene	105	13.669	13.669	0.000	94	3117708	50.0	52.7	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	97	2559941	50.0	53.0	
100 1,3-Dichlorobenzene	146	13.935	13.935	0.000	98	1169333	50.0	49.3	
120 1,2,3-Trimethylbenzene	105	13.991	13.991	0.000	95	2121738	50.0	50.9	
* 101 1,4-Dichlorobenzene-d4	152	13.991	13.991	0.000	87	741652	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.004	14.004	0.000	91	1179570	50.0	48.7	
103 n-Butylbenzene	134	14.200	14.200	0.000	96	649442	50.0	50.5	
121 Benzyl chloride	126	14.242	14.242	0.000	96	135294	50.0	45.5	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	98	1007196	50.0	50.2	
106 n-Nonyl Aldehyde	57	15.150	15.150	0.000	91	164545	50.0	40.9	
105 1,2-Dibromo-3-Chloropropan	157	15.220	15.220	0.000	84	67953	50.0	53.2	
107 1,3,5-Trichlorobenzene	180	15.233	15.233	0.000	98	958717	50.0	48.6	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	96	536320	50.0	46.3	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	94	716246	50.0	46.8	
110 Naphthalene	128	16.239	16.239	0.000	97	845695	50.0	44.9	
111 1,2,3-Trichlorobenzene	180	16.435	16.435	0.000	96	549166	50.0	44.9	
S 112 Xylenes, Total	106				0			103.5	
S 113 Trihalomethanes, Total	1				0			202.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 NewWkMix_00188

Amount Added: 10.00

Units: uL

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00066

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6227.D

Injection Date: 21-Oct-2016 17:04:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: ccvc

Worklist Smp#: 21

Client ID:

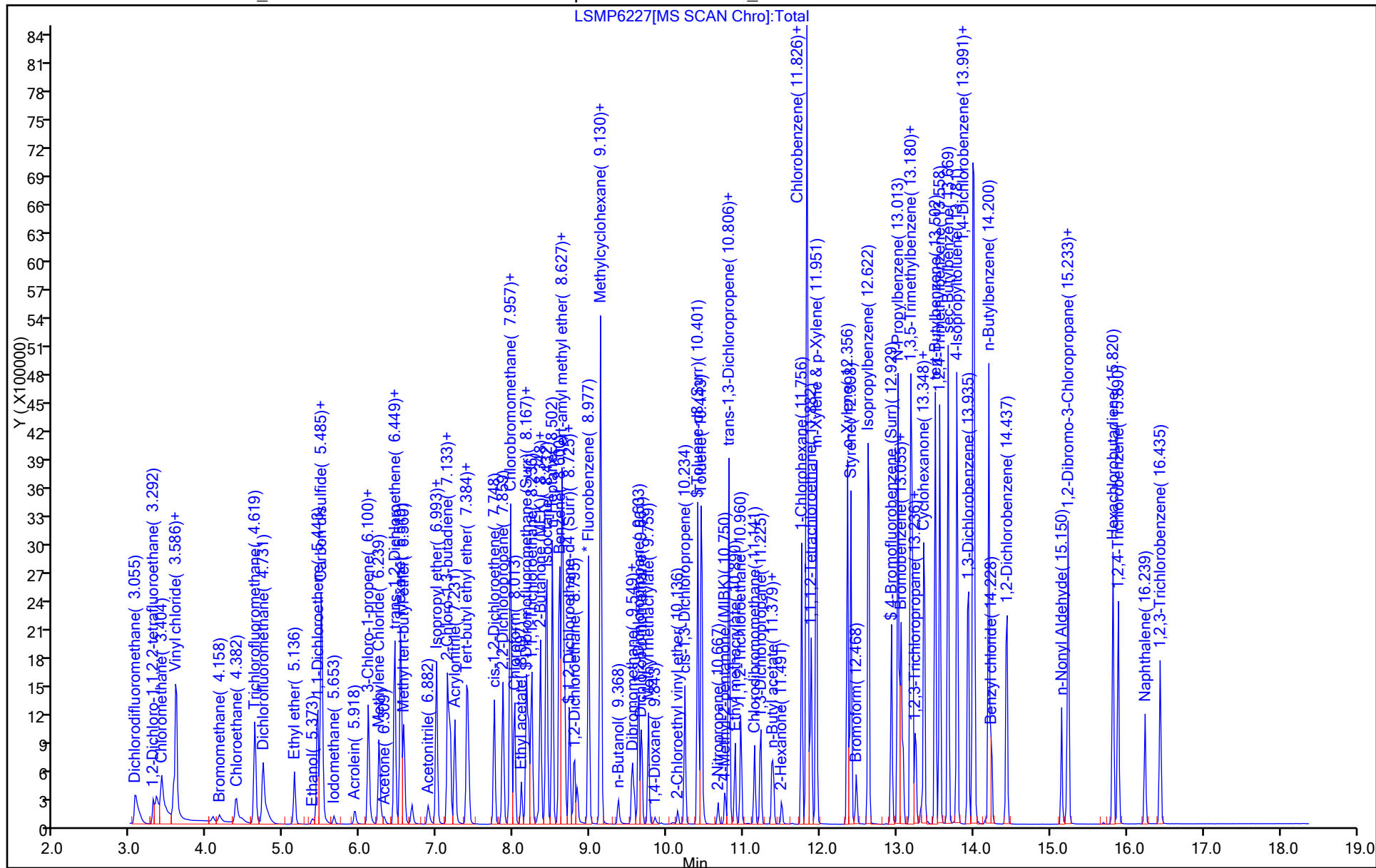
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 18

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6227.D

Injection Date: 21-Oct-2016 17:04:30

Instrument ID: VMSL

Lims ID: ccvc

Client ID:

Operator ID: ADB

ALS Bottle#: 18

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD

Column:

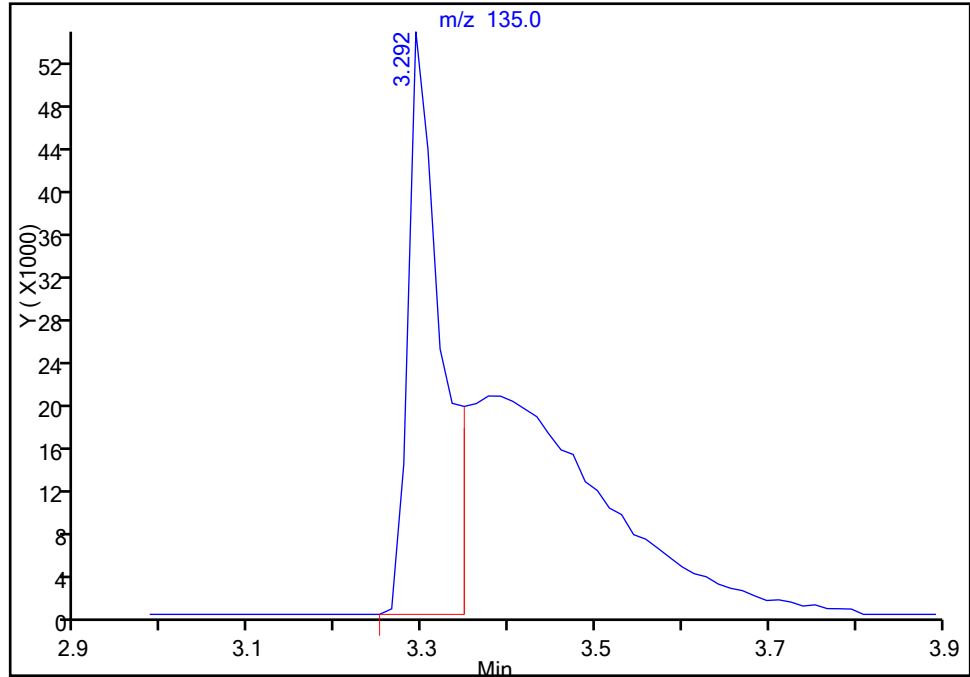
Detector MS SCAN

2 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Signal: 1

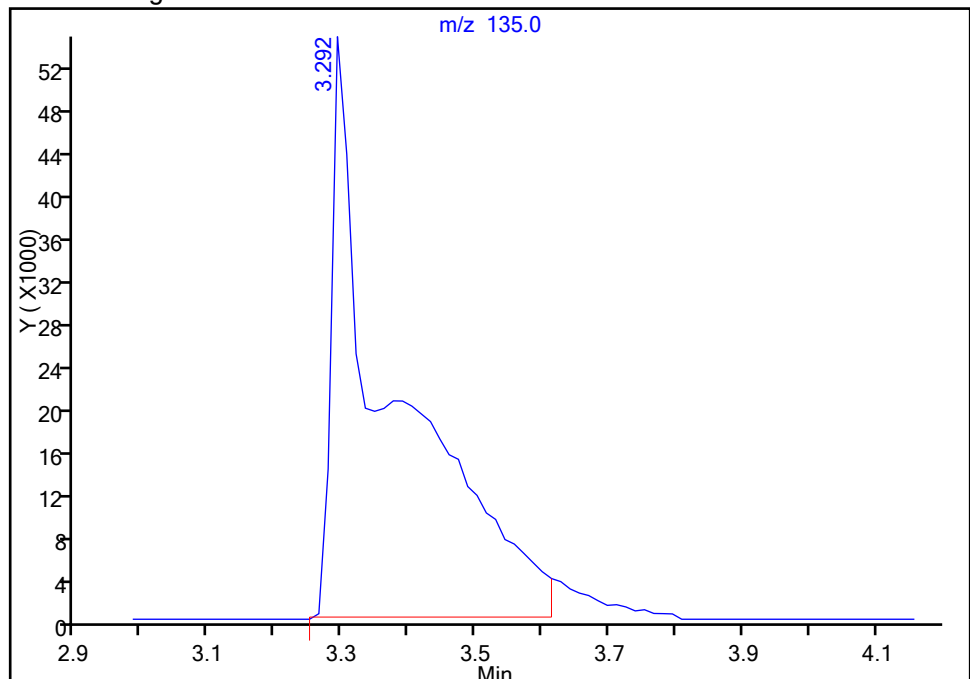
RT: 3.29
Area: 149261
Amount: 20.109628
Amount Units: ug/l

Processing Integration Results



RT: 3.29
Area: 349938
Amount: 47.146429
Amount Units: ug/l

Manual Integration Results



Reviewer: buettnera, 24-Oct-2016 11:38:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LFBFB6156.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 20-Oct-2016 10:29:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: BFB
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 21-Oct-2016 09:28:47 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D
Column 1 : Det: MS SCAN
Process Host: XAWRK039

First Level Reviewer: buettnera

Date: 20-Oct-2016 10:39:24

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

\$ 114 BFB	95	4.086	4.086	0.000	0	2021409	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_00063

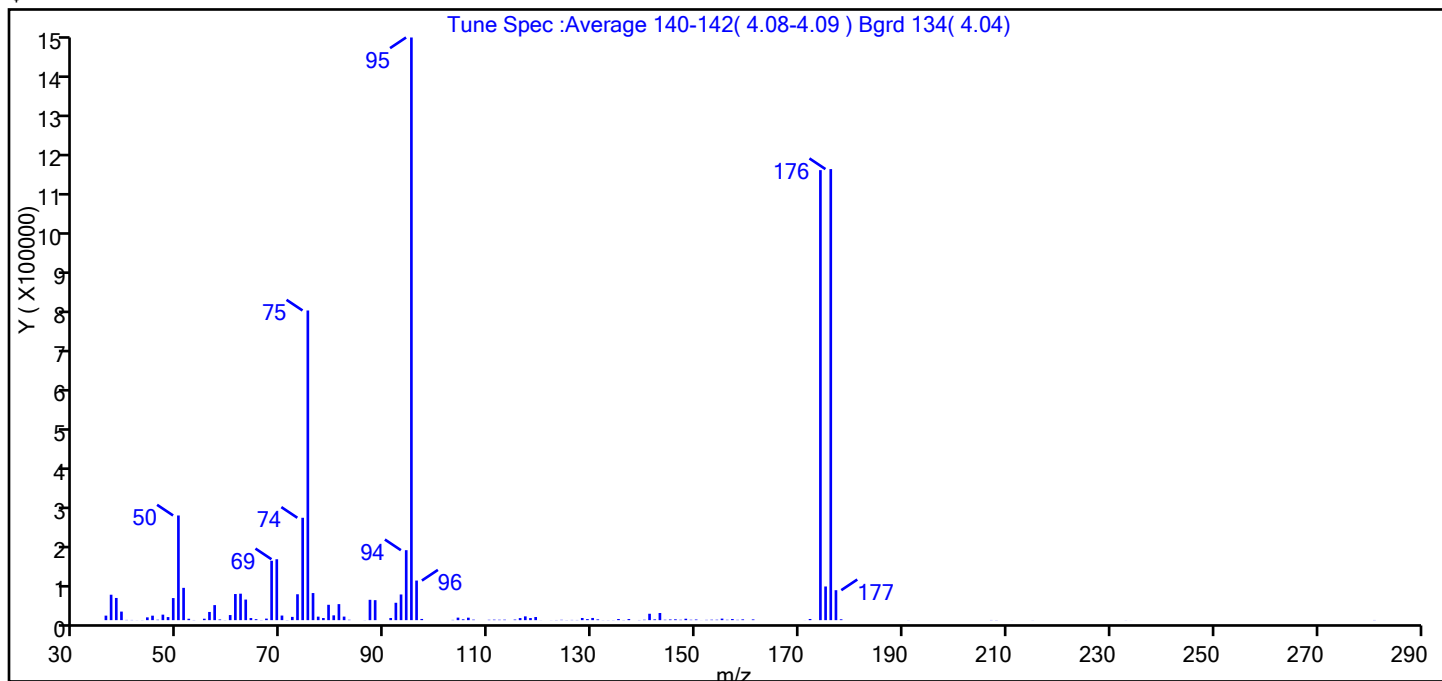
Amount Added: 2.00

Units: uL

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LBFB6156.D
Injection Date: 20-Oct-2016 10:29:30 Instrument ID: VMSL
Lims ID: BFB
Client ID:
Operator ID: ADB ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Tune Method: BFB Method 8260

\$ 114 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.0
75	30 to 60% of m/z 95	53.1
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	77.2
175	5 to 9% of m/z 174	5.8 (7.5)
176	Greater than 95% but less than 101% of m/z 174	77.4 (100.2)
177	5 to 9% of m/z 176	5.1 (6.6)

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LBFB6156.D\5mL-8260_VMSL.rsl\spectra.d
Injection Date: 20-Oct-2016 10:29:30
Spectrum: Tune Spec :Average 140-142(4.08-4.09) Bgrd 134(4.04)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 125

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	11072	69.00	149248	112.00	966	147.00	916
37.00	62296	70.00	11266	113.00	1156	148.00	3451
38.00	54368	71.00	346	115.00	1435	149.00	953
39.00	20960	72.00	7971	116.00	5108	150.00	1582
40.00	585	73.00	63448	117.00	9243	151.00	129
41.00	472	74.00	250880	118.00	5126	152.00	714
42.00	192	75.00	758912	119.00	7657	153.00	1086
43.00	268	76.00	66400	120.00	163	154.00	1043
44.00	6835	77.00	8599	122.00	195	155.00	3756
45.00	10950	78.00	5226	123.00	384	156.00	906
46.00	1013	79.00	37632	124.00	831	157.00	2686
47.00	13498	80.00	11739	125.00	300	158.00	772
48.00	7497	81.00	39280	126.00	548	159.00	1907
49.00	54088	82.00	8708	127.00	427	161.00	1773
50.00	256512	83.00	890	128.00	5274	171.00	118
51.00	79144	86.00	235	129.00	2517	172.00	2778
52.00	3423	87.00	49840	130.00	5353	174.00	1102848
53.00	378	88.00	48984	131.00	1931	175.00	82504
55.00	3511	91.00	5289	132.00	238	176.00	1105408
56.00	20080	92.00	42584	133.00	281	177.00	73408
57.00	36840	93.00	62896	134.00	296	178.00	2060
58.00	1676	94.00	171456	135.00	2774	191.00	217
59.00	265	95.00	1427968	136.00	392	207.00	420
60.00	12473	96.00	97016	137.00	2647	208.00	322
61.00	63992	97.00	2923	139.00	393	211.00	104
62.00	64832	103.00	600	140.00	1037	215.00	172
63.00	50440	104.00	6166	141.00	15663	233.00	163
64.00	5134	105.00	2026	142.00	1926	234.00	88
65.00	2381	106.00	6049	143.00	17512	281.00	409
66.00	379	107.00	1198	144.00	990		
67.00	3761	110.00	892	145.00	1701		
68.00	145536	111.00	1206	146.00	2032		

Report Date: 21-Oct-2016 09:28:48

Chrom Revision: 2.2 17-Oct-2016 09:27:18

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LBFB6156.D

Injection Date: 20-Oct-2016 10:29:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: BFB

Worklist Smp#: 1

Client ID:

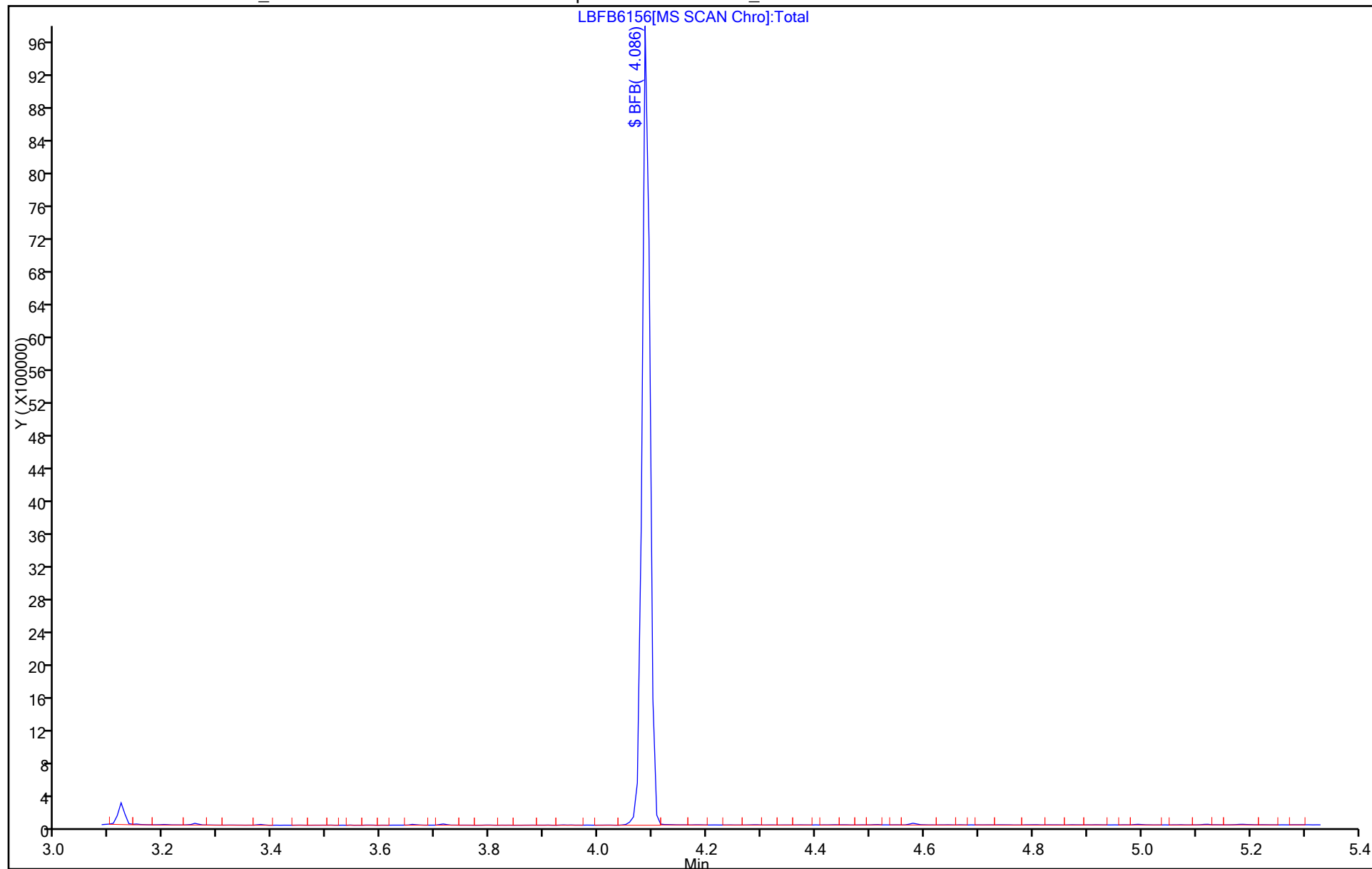
Injection Vol: 2.0 uL

Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LFBF6209.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 21-Oct-2016 09:33:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: BFB
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 24-Oct-2016 12:47:13 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D
Column 1 : Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 21-Oct-2016 09:44:38

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

\$ 114 BFB	95	4.086	4.086	0.000	0	1552795	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_00063

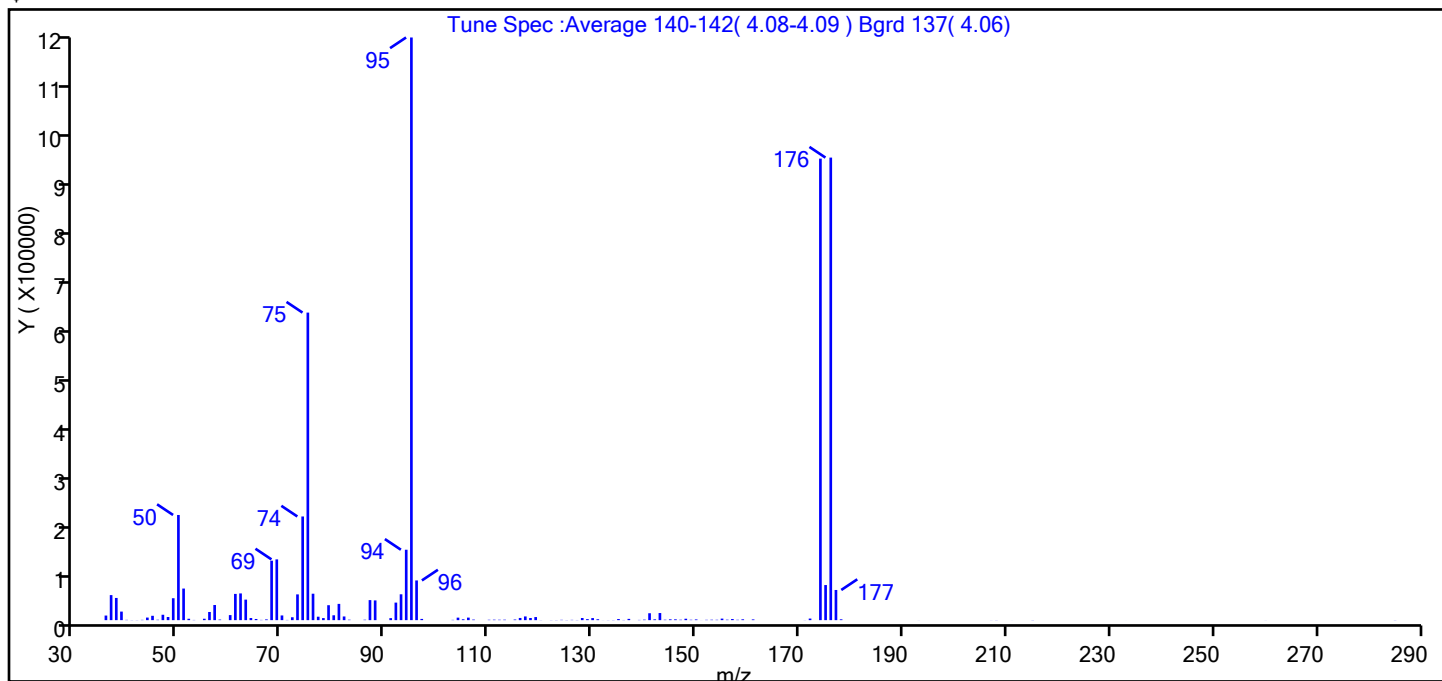
Amount Added: 2.00

Units: uL

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LBFB6209.D
Injection Date: 21-Oct-2016 09:33:30 Instrument ID: VMSL
Lims ID: BFB
Client ID:
Operator ID: ADB ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: 5mL-8260_VMSL Limit Group: MSV-8260_DoD
Tune Method: BFB Method 8260

\$ 114 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.0
75	30 to 60% of m/z 95	52.8
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	79.2
175	5 to 9% of m/z 174	6.0 (7.6)
176	Greater than 95% but less than 101% of m/z 174	79.4 (100.2)
177	5 to 9% of m/z 176	5.2 (6.5)

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LBFB6209.D\5mL-8260_VMSL.rsl\spectra.d
Injection Date: 21-Oct-2016 09:33:30
Spectrum: Tune Spec :Average 140-142(4.08-4.09) Bgrd 137(4.06)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 124

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8848	69.00	117024	111.00	898	145.00	1574
37.00	48224	70.00	9048	112.00	783	146.00	1565
38.00	42752	71.00	402	113.00	881	147.00	796
39.00	16472	72.00	5549	115.00	1185	148.00	2697
40.00	553	73.00	49616	116.00	4207	149.00	734
41.00	239	74.00	199680	117.00	7133	150.00	1372
42.00	233	75.00	592384	118.00	4153	151.00	89
43.00	547	76.00	50920	119.00	5945	152.00	634
44.00	4952	77.00	6619	120.00	201	153.00	818
45.00	8356	78.00	3978	122.00	234	154.00	703
46.00	745	79.00	28768	123.00	268	155.00	2947
47.00	10379	80.00	9352	124.00	603	156.00	879
48.00	6043	81.00	31320	125.00	273	157.00	2130
49.00	42216	82.00	7082	126.00	547	158.00	692
50.00	202560	83.00	828	127.00	297	159.00	1609
51.00	60840	86.00	799	128.00	4091	161.00	1402
52.00	2656	87.00	38584	129.00	1924	171.00	175
53.00	389	88.00	38016	130.00	3992	172.00	3048
55.00	2702	91.00	3870	131.00	1735	174.00	888960
56.00	15712	92.00	33776	132.00	100	175.00	67608
57.00	29144	93.00	49792	133.00	218	176.00	890944
58.00	1107	94.00	135616	134.00	283	177.00	58112
60.00	9710	95.00	1122304	135.00	2119	178.00	1581
61.00	50544	96.00	76472	136.00	325	193.00	96
62.00	51464	97.00	2363	137.00	2419	207.00	136
63.00	39536	103.00	516	139.00	459	208.00	223
64.00	4068	104.00	4808	140.00	974	211.00	64
65.00	2242	105.00	1639	141.00	13297	215.00	270
66.00	466	106.00	4870	142.00	1544	233.00	37
67.00	1447	107.00	1068	143.00	13678	260.00	104
68.00	114520	110.00	727	144.00	818	285.00	225

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LBFB6209.D

Injection Date: 21-Oct-2016 09:33:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: BFB

Worklist Smp#: 1

Client ID:

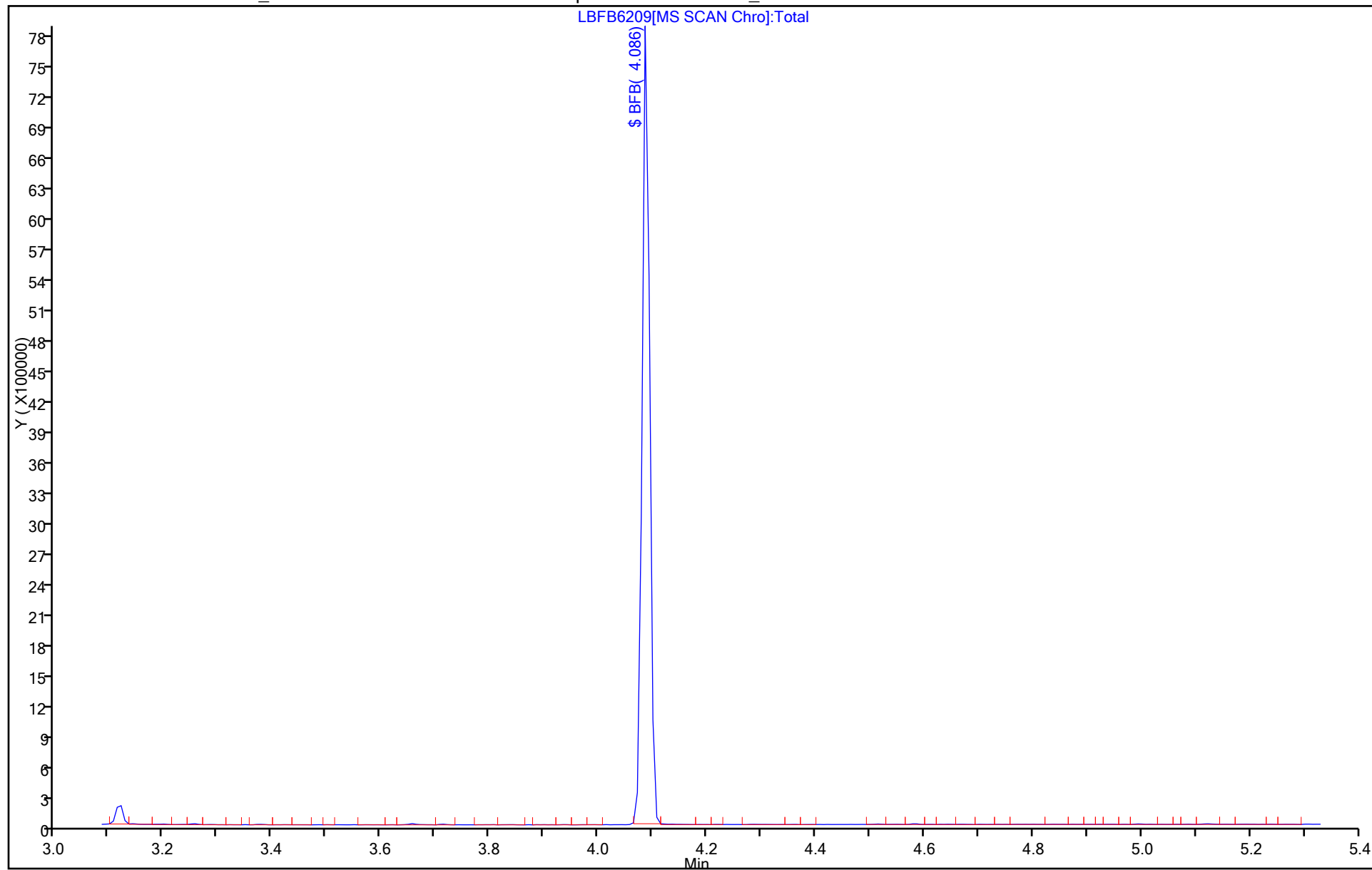
Injection Vol: 2.0 uL

Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 160-275504/8

Matrix: Water Lab File ID: LBLK6214.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 10/21/2016 11:38

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.0	U	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 160-275504/8

Matrix: Water Lab File ID: LBLK6214.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 10/21/2016 11:38

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		81-118
460-00-4	4-Bromofluorobenzene (Surr)	110		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	108		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\BLK6214.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Oct-2016 11:38:30 ALS Bottle#: 5 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: MB
 Operator ID: ADB Instrument ID: VMSL
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 12:46:42 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 21-Oct-2016 12:00:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		3.069					ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		3.292					ND	
3 Chloromethane	50		3.404					ND	
4 Vinyl chloride	62		3.558					ND	
122 Butadiene	39		3.585					ND	
5 Bromomethane	94		4.158					ND	
6 Chloroethane	64		4.382					ND	
7 Trichlorofluoromethane	101		4.619					ND	
123 Dichlorofluoromethane	67		4.731					ND	
8 Ethyl ether	74		5.136					ND	
11 Ethanol	45		5.373					ND	
9 1,1-Dichloroethene	96		5.443					ND	
10 Carbon disulfide	76		5.485					ND	
12 1,1,2-Trichloro-1,2,2-trif	151		5.499					ND	
13 Iodomethane	142		5.666					ND	
S 26 1,2-Dichloroethene, Total	96		5.816					ND	
14 Acrolein	56		5.932					ND	
15 3-Chloro-1-propene	39		6.099					ND	
16 Isopropyl alcohol	45		6.127					ND	
17 Methylene Chloride	84		6.239					ND	
18 Acetone	43		6.309					ND	
19 trans-1,2-Dichloroethene	96		6.449					ND	
20 Methyl acetate	74		6.449					ND	
21 Hexane	86		6.518					ND	
22 Methyl tert-butyl ether	73		6.560					ND	
24 Acetonitrile	41		6.882					ND	
25 Isopropyl ether	45		6.993					ND	
23 2-Methyl-2-propanol	59		6.993					ND	
27 2-Chloro-1,3-butadiene	53		7.133					ND	
28 1,1-Dichloroethane	63		7.161					ND	
29 Acrylonitrile	53		7.231					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		7.384					ND	
31 Vinyl acetate	43		7.412					ND	
32 cis-1,2-Dichloroethene	96		7.747					ND	
33 2,2-Dichloropropane	77		7.859					ND	
35 Chlorobromomethane	128		7.957					ND	
34 Cyclohexane	84		7.957					ND	
36 Chloroform	83		8.013					ND	
39 Ethyl acetate	45		8.097					ND	
37 Carbon tetrachloride	117		8.166					ND	
38 Tetrahydrofuran	71		8.180					ND	
\$ 41 Dibromofluoromethane (Surr	113	8.195	8.194	0.001	94	415769	50.0	49.8	
40 1,1,1-Trichloroethane	97		8.236					ND	
43 2-Butanone (MEK)	43		8.306					ND	
42 1,1-Dichloropropene	75		8.348					ND	
125 Isooctane	57		8.432					ND	
117 n-Heptane	43		8.502					ND	
44 Benzene	78		8.599					ND	
45 Propionitrile	54		8.613					ND	
46 Methacrylonitrile	41		8.627					ND	
48 Tert-amyl methyl ether	73		8.655					ND	
50 Isobutyl alcohol	42		8.725					ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	94	457742	50.0	50.4	
49 1,2-Dichloroethane	62		8.781					ND	
* 51 Fluorobenzene	96	8.977	8.976	0.001	99	2152741	50.0	50.0	
118 1,4-Difluorobenzene	114		9.130					ND	
52 Methylcyclohexane	55		9.130					ND	
53 Trichloroethene	95		9.130					ND	
54 n-Butanol	56		9.368					ND	
55 Dibromomethane	93		9.549					ND	
124 Ethyl acrylate	55		9.563					ND	
56 1,2-Dichloropropane	63		9.633					ND	
57 Dichlorobromomethane	83		9.661					ND	
58 Methyl methacrylate	69		9.759					ND	
59 1,4-Dioxane	88		9.842					ND	
60 2-Chloroethyl vinyl ether	63		10.136					ND	
61 cis-1,3-Dichloropropene	75		10.233					ND	
128 2-Pentanone	43		10.253					ND	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	1941715	50.0	53.8	
63 Toluene	92		10.443					ND	
64 2-Nitropropane	43		10.666					ND	
66 4-Methyl-2-pentanone (MIBK	43		10.750					ND	
67 trans-1,3-Dichloropropene	75		10.806					ND	
65 Tetrachloroethene	164		10.806					ND	
69 Ethyl methacrylate	69		10.890					ND	
68 1,1,2-Trichloroethane	83		10.960					ND	
70 Chlorodibromomethane	129		11.141					ND	
71 1,3-Dichloropropane	76		11.225					ND	
119 n-Butyl acetate	43		11.365					ND	
72 Ethylene Dibromide	107		11.393					ND	
74 2-Hexanone	43		11.490					ND	
S 73 1,3-Dichloropropene, Total	75		11.620					ND	
75 1-Chlorohexane	91		11.756					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91		11.826					ND	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	86	1437184	50.0	50.0	
77 Chlorobenzene	112		11.840					ND	
79 1,1,1,2-Tetrachloroethane	131		11.881					ND	
80 m-Xylene & p-Xylene	106		11.951					ND	
82 o-Xylene	106		12.356					ND	
83 Styrene	104		12.398					ND	
84 Bromoform	173		12.468					ND	
85 Isopropylbenzene	105		12.622					ND	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	92	631787	50.0	55.0	
88 N-Propylbenzene	91		13.013					ND	
87 Bromobenzene	156		13.055					ND	
89 1,1,2,2-Tetrachloroethane	83		13.083					ND	
91 1,3,5-Trimethylbenzene	105		13.180					ND	
90 2-Chlorotoluene	91		13.194					ND	
92 1,2,3-Trichloropropane	110		13.236					ND	
93 trans-1,4-Dichloro-2-buten	53		13.250					ND	
94 Cyclohexanone	55		13.320					ND	
95 4-Chlorotoluene	91		13.348					ND	
96 tert-Butylbenzene	119		13.502					ND	
81 Pentachloroethane	167		13.557					ND	
97 1,2,4-Trimethylbenzene	105		13.557					ND	
98 sec-Butylbenzene	105		13.669					ND	
99 4-Isopropyltoluene	119		13.781					ND	
100 1,3-Dichlorobenzene	146		13.934					ND	
120 1,2,3-Trimethylbenzene	105		13.990					ND	
* 101 1,4-Dichlorobenzene-d4	152	13.991	13.990	0.001	96	696820	50.0	50.0	
102 1,4-Dichlorobenzene	146		14.004					ND	
103 n-Butylbenzene	134		14.200					ND	
121 Benzyl chloride	126		14.242					ND	
104 1,2-Dichlorobenzene	146		14.437					ND	
106 n-Nonyl Aldehyde	57		15.150					ND	
105 1,2-Dibromo-3-Chloropropan	157		15.219					ND	
107 1,3,5-Trichlorobenzene	180		15.233					ND	
108 Hexachlorobutadiene	225		15.820					ND	
109 1,2,4-Trichlorobenzene	180		15.890					ND	
110 Naphthalene	128		16.239					ND	
111 1,2,3-Trichlorobenzene	180		16.434					ND	
S 112 Xylenes, Total	106		16.500					ND	
126 C6-C12	1		0.000					ND	
S 113 Trihalomethanes, Total	1		0.000					ND	
127 2-Methylpentane	1		0.000					ND	

Reagents:

I.S. Working_00138
8260 Surr 25_00066

Amount Added: 10.00
Amount Added: 10.00

Units: uL
Units: uL

Run Reagent
Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LBLK6214.D

Injection Date: 21-Oct-2016 11:38:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: MB

Worklist Smp#: 8

Client ID:

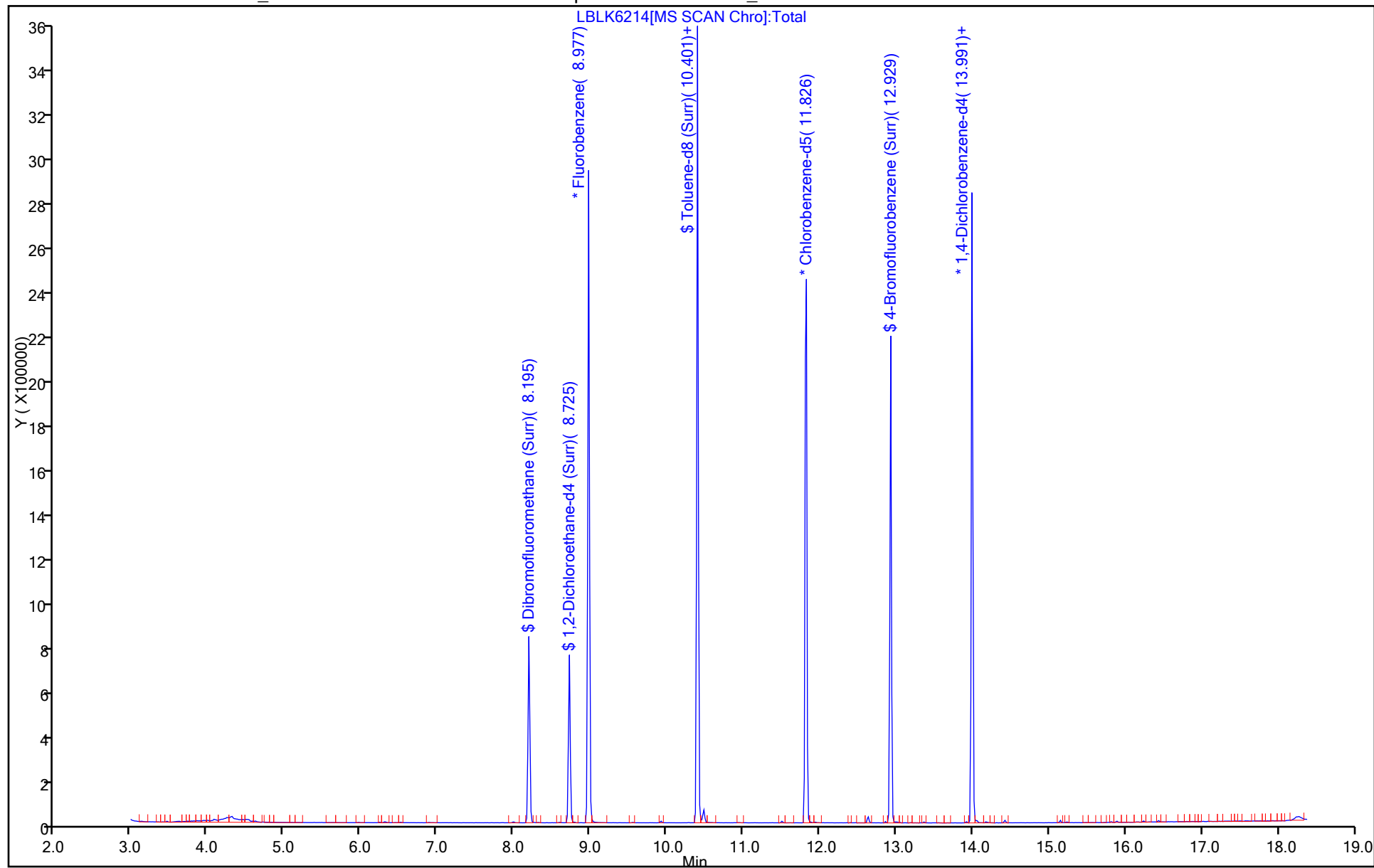
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LBLK6214.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 21-Oct-2016 11:38:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: MB
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 24-Oct-2016 12:46:42 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D
Column 1 : Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 21-Oct-2016 12:00:12

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	49.8	99.61
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.4	100.84
\$ 62 Toluene-d8 (Surr)	50.0	53.8	107.69
\$ 86 4-Bromofluorobenzene (Surr)	50.0	55.0	109.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 160-275504/5

Matrix: Water Lab File ID: LLCS6211.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 10/21/2016 10:23

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	48.0		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	48.8		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	47.9		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	49.2		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	47.9		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	48.9		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	50.3		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	49.4		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	49.6		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	51.4		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	52.6		10	2.0	1.2
106-93-4	1,2-Dibromoethane	49.9		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	51.2		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	49.2		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	52.6		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	49.5		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	50.0		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	46.3		20	5.0	0.39
95-49-8	2-Chlorotoluene	49.4		5.0	2.0	0.34
591-78-6	2-Hexanone	48.7		20	2.0	0.59
106-43-4	4-Chlorotoluene	50.7		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	52.9		20	2.0	0.33
67-64-1	Acetone	49.6		20	10	6.7
71-43-2	Benzene	48.7		5.0	1.0	0.25
108-86-1	Bromobenzene	48.3		5.0	2.0	0.33
74-97-5	Bromochloromethane	49.5		5.0	2.0	0.55
75-27-4	Bromodichloromethane	49.7		5.0	2.0	0.25
75-25-2	Bromoform	49.0		5.0	1.0	0.37
74-83-9	Bromomethane	53.3		10	2.0	0.40
75-15-0	Carbon disulfide	48.5		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	48.5		5.0	1.0	0.36
108-90-7	Chlorobenzene	47.9		5.0	1.0	0.38
75-00-3	Chloroethane	52.9		10	1.0	0.38
67-66-3	Chloroform	48.5		5.0	1.0	0.15
74-87-3	Chloromethane	49.3		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	49.1		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 160-275504/5

Matrix: Water Lab File ID: LLCS6211.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 10/21/2016 10:23

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	52.2		5.0	1.0	0.34
124-48-1	Dibromochloromethane	49.9		5.0	1.0	0.33
74-95-3	Dibromomethane	49.5		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	59.0		10	2.0	0.45
100-41-4	Ethylbenzene	49.3		5.0	1.0	0.30
98-82-8	Isopropylbenzene	51.7		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	51.0		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	52.4		5.0	2.0	0.40
75-09-2	Methylene Chloride	48.0		7.5	5.0	1.7
91-20-3	Naphthalene	49.3		5.0	2.0	0.85
104-51-8	n-Butylbenzene	52.8		5.0	2.0	0.23
103-65-1	N-Propylbenzene	52.5		5.0	2.0	0.30
95-47-6	o-Xylene	52.4		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	52.5		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	51.7		5.0	2.0	0.31
100-42-5	Styrene	53.0		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	51.8		5.0	2.0	0.31
127-18-4	Tetrachloroethene	48.4		5.0	1.0	0.28
108-88-3	Toluene	49.4		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	48.8		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	51.9		5.0	1.0	0.35
79-01-6	Trichloroethene	48.8		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	49.5		5.0	2.0	0.22
75-01-4	Vinyl chloride	49.7		5.0	1.0	0.43
1330-20-7	Xylenes (total)	103		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		81-118
460-00-4	4-Bromofluorobenzene (Surr)	102		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	102		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LLCS6211.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Oct-2016 10:23:30 ALS Bottle#: 2 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: LCS
 Operator ID: ADB Instrument ID: VMSL
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 12:46:42 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LLCL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: buettnera Date: 24-Oct-2016 11:26:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.055	3.069	-0.014	99	726801	50.0	59.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.292	3.292	0.000	99	384676	50.0	51.6	
3 Chloromethane	50	3.404	3.404	0.000	99	691451	50.0	49.3	
4 Vinyl chloride	62	3.558	3.558	0.000	97	730136	50.0	49.7	
122 Butadiene	39	3.585	3.585	0.000	95	713858	50.0	51.6	
5 Bromomethane	94	4.158	4.158	0.000	91	417433	50.0	53.3	
6 Chloroethane	64	4.368	4.382	-0.014	100	392126	50.0	52.9	
7 Trichlorofluoromethane	101	4.619	4.619	0.000	99	983604	50.0	49.5	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	99	1068443	50.0	48.1	
8 Ethyl ether	74	5.136	5.136	0.000	90	237139	50.0	52.4	
11 Ethanol	45	5.373	5.373	0.000	99	97593	2000.0	2081.4	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	98	514022	50.0	48.9	
10 Carbon disulfide	76	5.485	5.485	0.000	99	1905279	50.0	48.5	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	90	481510	50.0	48.1	
13 Iodomethane	142	5.652	5.666	-0.014	100	158831	50.0	27.6	
14 Acrolein	56	5.918	5.932	-0.014	99	157394	250.0	269.2	
15 3-Chloro-1-propene	39	6.099	6.099	0.000	91	544405	50.0	50.2	
16 Isopropyl alcohol	45	6.127	6.127	0.000	97	131690	500.0	533.8	
17 Methylene Chloride	84	6.239	6.239	0.000	90	481015	50.0	48.0	
18 Acetone	43	6.309	6.309	0.000	99	67118	50.0	49.6	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	99	543231	50.0	48.8	
20 Methyl acetate	74	6.449	6.449	0.000	97	209275	250.0	263.9	
21 Hexane	86	6.518	6.518	0.000	91	199401	50.0	51.3	
22 Methyl tert-butyl ether	73	6.560	6.560	0.000	89	992170	50.0	52.4	
24 Acetonitrile	41	6.882	6.882	0.000	99	260508	500.0	499.6	
25 Isopropyl ether	45	6.993	6.993	0.000	92	1242734	50.0	52.0	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	35	154205	500.0	509.3	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	90	841700	50.0	51.3	
28 1,1-Dichloroethane	63	7.161	7.161	0.000	95	950217	50.0	47.9	
29 Acrylonitrile	53	7.231	7.231	0.000	99	843005	500.0	520.7	
30 Tert-butyl ethyl ether	59	7.384	7.384	0.000	97	1170229	50.0	53.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Vinyl acetate	43	7.412	7.412	0.000	97	709536	50.0	53.6	
32 cis-1,2-Dichloroethene	96	7.747	7.747	0.000	78	535562	50.0	49.1	
33 2,2-Dichloropropane	77	7.859	7.859	0.000	88	910903	50.0	50.0	
35 Chlorobromomethane	128	7.957	7.957	0.000	56	198971	50.0	49.5	
34 Cyclohexane	84	7.957	7.957	0.000	87	974824	50.0	50.9	
36 Chloroform	83	8.013	8.013	0.000	93	926105	50.0	48.5	
39 Ethyl acetate	45	8.097	8.097	0.000	99	62000	100.0	104.6	
37 Carbon tetrachloride	117	8.166	8.166	0.000	97	821456	50.0	48.5	
38 Tetrahydrofuran	71	8.180	8.180	0.000	85	55971	100.0	113.0	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.194	0.000	95	401022	50.0	49.9	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	97	930245	50.0	48.8	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	99	95819	50.0	46.3	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	98	803386	50.0	50.3	
125 Isooctane	57	8.432	8.432	0.000	100	2343137	50.0	50.4	
117 n-Heptane	43	8.502	8.502	0.000	91	958892	50.0	50.7	
44 Benzene	78	8.599	8.599	0.000	95	2213841	50.0	48.7	
45 Propionitrile	54	8.613	8.613	0.000	97	325633	500.0	514.7	
46 Methacrylonitrile	41	8.627	8.627	0.000	91	1621925	500.0	524.2	
48 Tert-amyl methyl ether	73	8.655	8.655	0.000	99	1052858	50.0	51.9	
50 Isobutyl alcohol	42	8.725	8.725	0.000	69	152418	1250.0	1385.4	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	94	449520	50.0	51.4	
49 1,2-Dichloroethane	62	8.781	8.781	0.000	98	540183	50.0	51.2	
* 51 Fluorobenzene	96	8.976	8.976	0.000	99	2072854	50.0	50.0	
52 Methylcyclohexane	55	9.130	9.130	0.000	87	831681	50.0	49.3	
53 Trichloroethene	95	9.130	9.130	0.000	64	587417	50.0	48.8	
54 n-Butanol	56	9.367	9.368	-0.001	89	147320	1250.0	1349.2	
55 Dibromomethane	93	9.535	9.549	-0.014	94	213000	50.0	49.5	
124 Ethyl acrylate	55	9.563	9.563	0.000	100	286381	50.0	46.3	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	94	482336	50.0	49.2	
57 Dichlorobromomethane	83	9.661	9.661	0.000	99	609225	50.0	49.7	
58 Methyl methacrylate	69	9.759	9.759	0.000	87	402342	100.0	97.7	
59 1,4-Dioxane	88	9.842	9.842	0.000	93	53933	1000.0	1064.3	
60 2-Chloroethyl vinyl ether	63	10.136	10.136	0.000	92	148003	50.0	44.0	
61 cis-1,3-Dichloropropene	75	10.233	10.233	0.000	96	733133	50.0	52.2	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	92	1900916	50.0	50.9	
63 Toluene	92	10.443	10.443	0.000	99	1418581	50.0	49.4	
64 2-Nitropropane	43	10.666	10.666	0.000	99	125170	100.0	103.8	
66 4-Methyl-2-pentanone (MIBK	43	10.750	10.750	0.000	96	205964	50.0	52.9	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	89	617332	50.0	51.9	
65 Tetrachloroethene	164	10.806	10.806	0.000	98	523339	50.0	48.4	
69 Ethyl methacrylate	69	10.890	10.890	0.000	87	393015	50.0	45.6	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	92	275738	50.0	49.2	
70 Chlorodibromomethane	129	11.141	11.141	0.000	90	378622	50.0	49.9	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	89	584415	50.0	49.5	
119 n-Butyl acetate	43	11.365	11.365	0.000	94	344607	50.0	44.5	
72 Ethylene Dibromide	107	11.393	11.393	0.000	99	299679	50.0	49.9	
74 2-Hexanone	43	11.490	11.490	0.000	95	139522	50.0	48.7	
75 1-Chlorohexane	91	11.756	11.756	0.000	96	849559	50.0	48.7	
78 Ethylbenzene	91	11.826	11.826	0.000	98	2773089	50.0	49.3	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	93	1487241	50.0	50.0	
77 Chlorobenzene	112	11.840	11.840	0.000	97	1465908	50.0	47.9	
79 1,1,1,2-Tetrachloroethane	131	11.881	11.881	0.000	94	491045	50.0	48.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	97	1073961	50.0	51.0	
82 o-Xylene	106	12.356	12.356	0.000	96	950879	50.0	52.4	
83 Styrene	104	12.398	12.398	0.000	93	1518196	50.0	53.0	
84 Bromoform	173	12.468	12.468	0.000	97	218903	50.0	49.0	
85 Isopropylbenzene	105	12.622	12.622	0.000	96	2805986	50.0	51.7	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	93	653453	50.0	51.0	
88 N-Propylbenzene	91	13.013	13.013	0.000	98	3307001	50.0	52.5	
87 Bromobenzene	156	13.055	13.055	0.000	88	590705	50.0	48.3	
89 1,1,2,2-Tetrachloroethane	83	13.083	13.083	0.000	96	356916	50.0	47.9	
91 1,3,5-Trimethylbenzene	105	13.180	13.180	0.000	95	2279491	50.0	52.6	
90 2-Chlorotoluene	91	13.194	13.194	0.000	96	2131391	50.0	49.4	
92 1,2,3-Trichloropropane	110	13.236	13.236	0.000	86	115238	50.0	49.6	
93 trans-1,4-Dichloro-2-buten	53	13.250	13.250	0.000	94	99817	50.0	51.3	
94 Cyclohexanone	55	13.320	13.320	0.000	88	77017	500.0	506.5	
95 4-Chlorotoluene	91	13.348	13.348	0.000	98	1914225	50.0	50.7	
96 tert-Butylbenzene	119	13.502	13.502	0.000	92	2052898	50.0	51.8	
97 1,2,4-Trimethylbenzene	105	13.557	13.557	0.000	97	2307934	50.0	51.4	
98 sec-Butylbenzene	105	13.669	13.669	0.000	94	3198069	50.0	51.7	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	96	2654846	50.0	52.5	
100 1,3-Dichlorobenzene	146	13.934	13.934	0.000	98	1217877	50.0	49.1	
120 1,2,3-Trimethylbenzene	105	13.990	13.990	0.000	95	2196654	50.0	50.3	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.990	0.000	74	776580	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.004	14.004	0.000	93	1215856	50.0	48.0	
103 n-Butylbenzene	134	14.200	14.200	0.000	96	710893	50.0	52.8	
121 Benzyl chloride	126	14.228	14.242	-0.014	96	160031	50.0	51.4	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	98	1035183	50.0	49.3	
106 n-Nonyl Aldehyde	57	15.150	15.150	0.000	91	189647	50.0	44.1	
105 1,2-Dibromo-3-Chloropropan	157	15.219	15.219	0.000	86	70313	50.0	52.6	
107 1,3,5-Trichlorobenzene	180	15.233	15.233	0.000	98	1051104	50.0	50.9	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	96	610835	50.0	50.3	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	94	833337	50.0	52.0	
110 Naphthalene	128	16.239	16.239	0.000	97	978548	50.0	49.3	
111 1,2,3-Trichlorobenzene	180	16.434	16.434	0.000	96	632336	50.0	49.4	

Reagents:

8260 NewWkMix_00188

Amount Added: 10.00

Units: uL

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00066

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\\StLouis\\ChromData\\VMSL\\20161021-8795.b\\LLCS6211.D

Injection Date: 21-Oct-2016 10:23:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: LCS

Worklist Smp#: 5

Client ID:

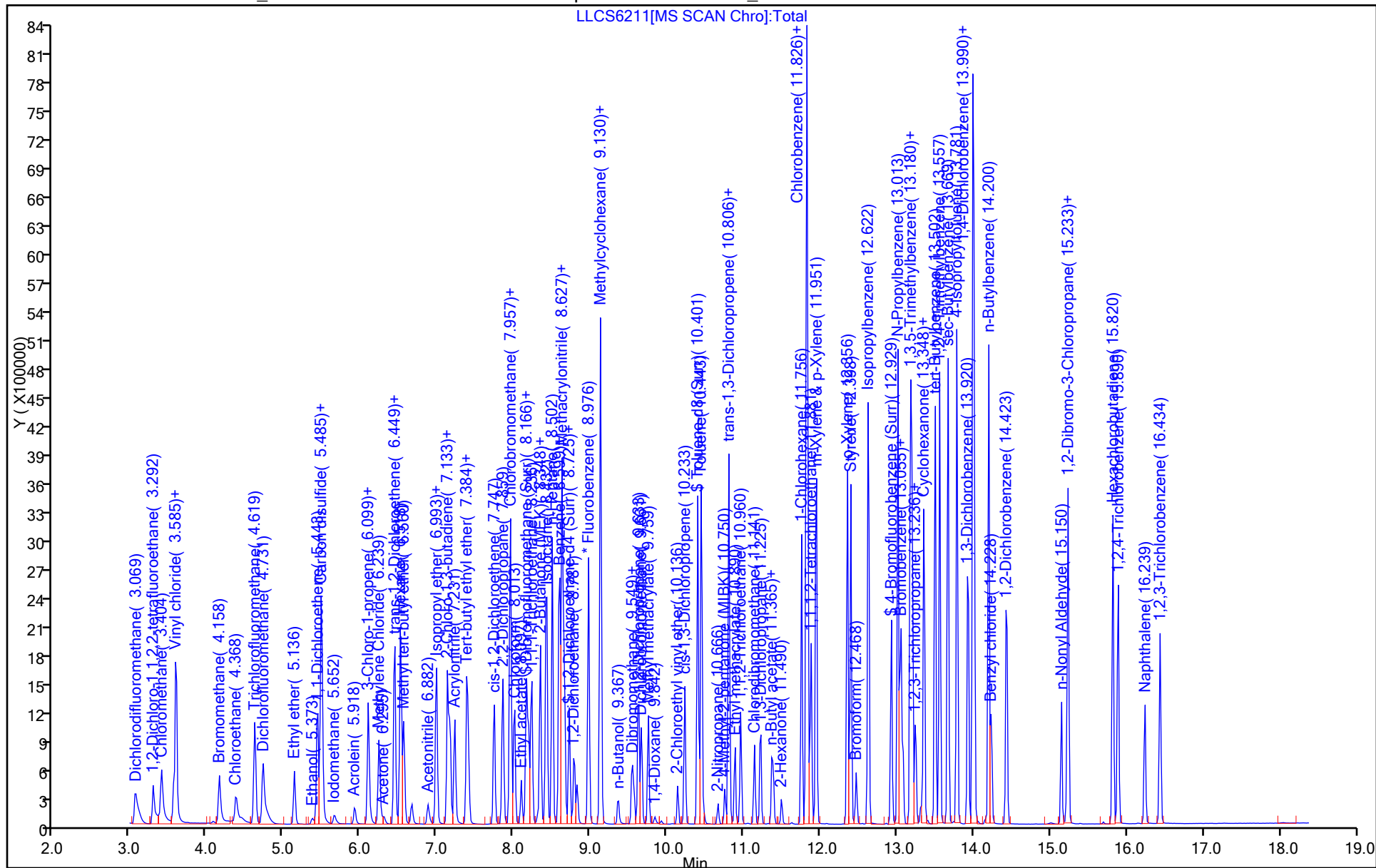
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LLCS6211.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 21-Oct-2016 10:23:30 ALS Bottle#: 2 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: LCS
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 24-Oct-2016 12:46:42 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:26:56

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	49.9	99.78
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.4	102.84
\$ 62 Toluene-d8 (Surr)	50.0	50.9	101.88
\$ 86 4-Bromofluorobenzene (Surr)	50.0	51.0	102.01

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 160-275504/6

Matrix: Water Lab File ID: LLCS6212.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 10/21/2016 10:48

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	49.1		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	48.7		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	47.8		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	49.1		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	48.3		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	49.5		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	51.3		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	46.0		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	48.5		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	52.7		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	50.1		10	2.0	1.2
106-93-4	1,2-Dibromoethane	50.1		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	49.4		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	49.5		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	54.4		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	50.4		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	49.7		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	45.9		20	5.0	0.39
95-49-8	2-Chlorotoluene	50.7		5.0	2.0	0.34
591-78-6	2-Hexanone	50.2		20	2.0	0.59
106-43-4	4-Chlorotoluene	52.3		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	52.8		20	2.0	0.33
67-64-1	Acetone	47.6		20	10	6.7
71-43-2	Benzene	48.9		5.0	1.0	0.25
108-86-1	Bromobenzene	49.2		5.0	2.0	0.33
74-97-5	Bromochloromethane	48.4		5.0	2.0	0.55
75-27-4	Bromodichloromethane	49.2		5.0	2.0	0.25
75-25-2	Bromoform	48.9		5.0	1.0	0.37
74-83-9	Bromomethane	48.7		10	2.0	0.40
75-15-0	Carbon disulfide	49.1		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	48.3		5.0	1.0	0.36
108-90-7	Chlorobenzene	48.5		5.0	1.0	0.38
75-00-3	Chloroethane	51.4		10	1.0	0.38
67-66-3	Chloroform	48.3		5.0	1.0	0.15
74-87-3	Chloromethane	49.6		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	49.9		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 160-275504/6

Matrix: Water Lab File ID: LLCS6212.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 10/21/2016 10:48

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	52.1		5.0	1.0	0.34
124-48-1	Dibromochloromethane	50.3		5.0	1.0	0.33
74-95-3	Dibromomethane	49.1		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	58.5		10	2.0	0.45
100-41-4	Ethylbenzene	50.7		5.0	1.0	0.30
98-82-8	Isopropylbenzene	53.8		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	52.6		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	51.7		5.0	2.0	0.40
75-09-2	Methylene Chloride	47.8		7.5	5.0	1.7
91-20-3	Naphthalene	47.1		5.0	2.0	0.85
104-51-8	n-Butylbenzene	53.8		5.0	2.0	0.23
103-65-1	N-Propylbenzene	54.2		5.0	2.0	0.30
95-47-6	o-Xylene	54.1		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	54.4		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	53.6		5.0	2.0	0.31
100-42-5	Styrene	54.3		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	53.4		5.0	2.0	0.31
127-18-4	Tetrachloroethene	51.1		5.0	1.0	0.28
108-88-3	Toluene	51.6		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	49.2		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	52.7		5.0	1.0	0.35
79-01-6	Trichloroethene	48.8		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	48.9		5.0	2.0	0.22
75-01-4	Vinyl chloride	49.5		5.0	1.0	0.43
1330-20-7	Xylenes (total)	107		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		81-118
460-00-4	4-Bromofluorobenzene (Surr)	105		85-114
1868-53-7	Dibromofluoromethane (Surr)	99		80-119
2037-26-5	Toluene-d8 (Surr)	105		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LLCS6212.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 21-Oct-2016 10:48:30 ALS Bottle#: 3 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Misc. Info.: LCSD
 Operator ID: ADB Instrument ID: VMSL
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 12:46:42 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LLCL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: buettnera Date: 21-Oct-2016 11:37:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.069	3.069	0.000	99	809766	50.0	58.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	3.292	3.292	0.000	100	253638	50.0	30.3	
3 Chloromethane	50	3.404	3.404	0.000	99	780872	50.0	49.6	
4 Vinyl chloride	62	3.558	3.558	0.000	97	815807	50.0	49.5	
122 Butadiene	39	3.586	3.585	0.001	94	789185	50.0	50.8	
5 Bromomethane	94	4.158	4.158	0.000	91	427595	50.0	48.7	
6 Chloroethane	64	4.382	4.382	0.000	99	427607	50.0	51.4	
7 Trichlorofluoromethane	101	4.619	4.619	0.000	99	1090255	50.0	48.9	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	100	1193109	50.0	47.9	
8 Ethyl ether	74	5.136	5.136	0.000	90	261009	50.0	51.4	
11 Ethanol	45	5.373	5.373	0.000	99	103817	2000.0	1973.3	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	98	583138	50.0	49.5	
10 Carbon disulfide	76	5.485	5.485	0.000	99	2162038	50.0	49.1	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	89	542016	50.0	48.3	
13 Iodomethane	142	5.653	5.666	-0.013	100	288133	50.0	41.5	
14 Acrolein	56	5.918	5.932	-0.014	100	171198	250.0	261.0	
15 3-Chloro-1-propene	39	6.099	6.099	0.000	92	611158	50.0	50.2	
16 Isopropyl alcohol	45	6.127	6.127	0.000	97	138119	500.0	499.0	
17 Methylene Chloride	84	6.239	6.239	0.000	89	538087	50.0	47.8	
18 Acetone	43	6.309	6.309	0.000	100	72637	50.0	47.6	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	99	614891	50.0	49.2	
20 Methyl acetate	74	6.449	6.449	0.000	97	222400	250.0	249.9	
21 Hexane	86	6.518	6.518	0.000	89	227262	50.0	52.1	
22 Methyl tert-butyl ether	73	6.560	6.560	0.000	89	1100049	50.0	51.7	
24 Acetonitrile	41	6.882	6.882	0.000	99	276055	500.0	471.8	
25 Isopropyl ether	45	6.993	6.993	0.000	93	1418045	50.0	52.8	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	35	177393	500.0	522.2	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	90	963103	50.0	52.4	
28 1,1-Dichloroethane	63	7.161	7.161	0.000	95	1074634	50.0	48.3	
29 Acrylonitrile	53	7.231	7.231	0.000	99	901380	500.0	496.2	
30 Tert-butyl ethyl ether	59	7.384	7.384	0.000	97	1317424	50.0	53.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Vinyl acetate	43	7.412	7.412	0.000	97	765922	50.0	51.5	
32 cis-1,2-Dichloroethene	96	7.747	7.747	0.000	79	610215	50.0	49.9	
33 2,2-Dichloropropane	77	7.859	7.859	0.000	88	1016421	50.0	49.7	
35 Chlorobromomethane	128	7.957	7.957	0.000	55	218690	50.0	48.4	
34 Cyclohexane	84	7.957	7.957	0.000	87	1107264	50.0	51.5	
36 Chloroform	83	8.013	8.013	0.000	93	1034474	50.0	48.3	
39 Ethyl acetate	45	8.097	8.097	0.000	99	68533	100.0	103.1	
37 Carbon tetrachloride	117	8.166	8.166	0.000	97	917241	50.0	48.3	
38 Tetrahydrofuran	71	8.180	8.180	0.000	85	59887	100.0	107.7	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.194	0.000	95	446305	50.0	49.5	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	97	1040734	50.0	48.7	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	100	106664	50.0	45.9	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	98	919099	50.0	51.3	
125 Isooctane	57	8.432	8.432	0.000	100	2678942	50.0	51.3	
117 n-Heptane	43	8.502	8.502	0.000	91	1086041	50.0	51.2	
44 Benzene	78	8.599	8.599	0.000	95	2493673	50.0	48.9	
45 Propionitrile	54	8.613	8.613	0.000	97	343123	500.0	483.3	
46 Methacrylonitrile	41	8.627	8.627	0.000	91	1722423	500.0	496.1	
48 Tert-amyl methyl ether	73	8.655	8.655	0.000	98	1174176	50.0	51.6	
50 Isobutyl alcohol	42	8.725	8.725	0.000	67	147891	1250.0	1198.0	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	94	483700	50.0	49.3	
49 1,2-Dichloroethane	62	8.781	8.781	0.000	98	584577	50.0	49.4	
* 51 Fluorobenzene	96	8.976	8.976	0.000	99	2325843	50.0	50.0	
52 Methylcyclohexane	55	9.130	9.130	0.000	87	951212	50.0	50.2	
53 Trichloroethene	95	9.130	9.130	0.000	63	659639	50.0	48.8	
54 n-Butanol	56	9.368	9.368	0.000	88	158932	1250.0	1302.4	
55 Dibromomethane	93	9.549	9.549	0.000	95	237110	50.0	49.1	
124 Ethyl acrylate	55	9.563	9.563	0.000	100	318510	50.0	45.9	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	95	544586	50.0	49.5	
57 Dichlorobromomethane	83	9.661	9.661	0.000	100	676158	50.0	49.2	
58 Methyl methacrylate	69	9.759	9.759	0.000	87	438546	100.0	95.1	
59 1,4-Dioxane	88	9.842	9.842	0.000	92	59306	1000.0	1043.0	
60 2-Chloroethyl vinyl ether	63	10.136	10.136	0.000	92	168830	50.0	44.7	
61 cis-1,3-Dichloropropene	75	10.233	10.233	0.000	96	821599	50.0	52.1	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	2129718	50.0	52.6	
63 Toluene	92	10.443	10.443	0.000	99	1608128	50.0	51.6	
64 2-Nitropropane	43	10.666	10.666	0.000	99	135549	100.0	103.7	
66 4-Methyl-2-pentanone (MIBK	43	10.750	10.750	0.000	96	223239	50.0	52.8	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	89	680020	50.0	52.7	
65 Tetrachloroethene	164	10.806	10.806	0.000	98	599011	50.0	51.1	
69 Ethyl methacrylate	69	10.890	10.890	0.000	87	433035	50.0	46.3	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	92	298075	50.0	49.1	
70 Chlorodibromomethane	129	11.141	11.141	0.000	90	414023	50.0	50.3	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	89	645902	50.0	50.4	
119 n-Butyl acetate	43	11.365	11.365	0.000	95	383857	50.0	45.6	
72 Ethylene Dibromide	107	11.393	11.393	0.000	98	326656	50.0	50.1	
74 2-Hexanone	43	11.490	11.490	0.000	97	156036	50.0	50.2	
75 1-Chlorohexane	91	11.756	11.756	0.000	96	959173	50.0	50.6	
78 Ethylbenzene	91	11.826	11.826	0.000	98	3092936	50.0	50.7	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	91	1613148	50.0	50.0	
77 Chlorobenzene	112	11.840	11.840	0.000	97	1610342	50.0	48.5	
79 1,1,1,2-Tetrachloroethane	131	11.881	11.881	0.000	94	545368	50.0	49.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	97	1201764	50.0	52.6	
82 o-Xylene	106	12.356	12.356	0.000	96	1064021	50.0	54.1	
83 Styrene	104	12.398	12.398	0.000	94	1687648	50.0	54.3	
84 Bromoform	173	12.468	12.468	0.000	97	233740	50.0	48.9	
85 Isopropylbenzene	105	12.622	12.622	0.000	97	3115646	50.0	53.8	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	93	716454	50.0	52.3	
88 N-Propylbenzene	91	13.013	13.013	0.000	98	3648630	50.0	54.2	
87 Bromobenzene	156	13.055	13.055	0.000	88	643449	50.0	49.2	
89 1,1,2,2-Tetrachloroethane	83	13.083	13.083	0.000	95	381100	50.0	47.8	
91 1,3,5-Trimethylbenzene	105	13.180	13.180	0.000	95	2519175	50.0	54.4	
90 2-Chlorotoluene	91	13.194	13.194	0.000	96	2338178	50.0	50.7	
92 1,2,3-Trichloropropane	110	13.236	13.236	0.000	85	120457	50.0	48.5	
93 trans-1,4-Dichloro-2-buten	53	13.250	13.250	0.000	93	102855	50.0	49.4	
94 Cyclohexanone	55	13.320	13.320	0.000	87	80489	500.0	496.7	
95 4-Chlorotoluene	91	13.348	13.348	0.000	99	2108016	50.0	52.3	
96 tert-Butylbenzene	119	13.502	13.502	0.000	92	2263530	50.0	53.4	
97 1,2,4-Trimethylbenzene	105	13.557	13.557	0.000	97	2529914	50.0	52.7	
98 sec-Butylbenzene	105	13.669	13.669	0.000	94	3544077	50.0	53.6	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	97	2941086	50.0	54.4	
100 1,3-Dichlorobenzene	146	13.935	13.934	0.000	98	1315112	50.0	49.6	
120 1,2,3-Trimethylbenzene	105	13.990	13.990	0.000	96	2387985	50.0	51.2	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.990	0.000	84	829669	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.004	14.004	0.000	94	1315263	50.0	48.6	
103 n-Butylbenzene	134	14.200	14.200	0.000	96	773239	50.0	53.8	
121 Benzyl chloride	126	14.228	14.242	-0.014	96	167291	50.0	50.3	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	99	1117701	50.0	49.8	
106 n-Nonyl Aldehyde	57	15.150	15.150	0.000	92	204023	50.0	44.3	
105 1,2-Dibromo-3-Chloropropan	157	15.219	15.219	0.000	85	71515	50.0	50.1	
107 1,3,5-Trichlorobenzene	180	15.233	15.233	0.000	98	1112217	50.0	50.4	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	95	654757	50.0	50.5	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	94	863545	50.0	50.4	
110 Naphthalene	128	16.239	16.239	0.000	97	996605	50.0	47.1	
111 1,2,3-Trichlorobenzene	180	16.434	16.434	0.000	96	628844	50.0	46.0	

Reagents:

8260 NewWkMix_00188

Amount Added: 10.00

Units: uL

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

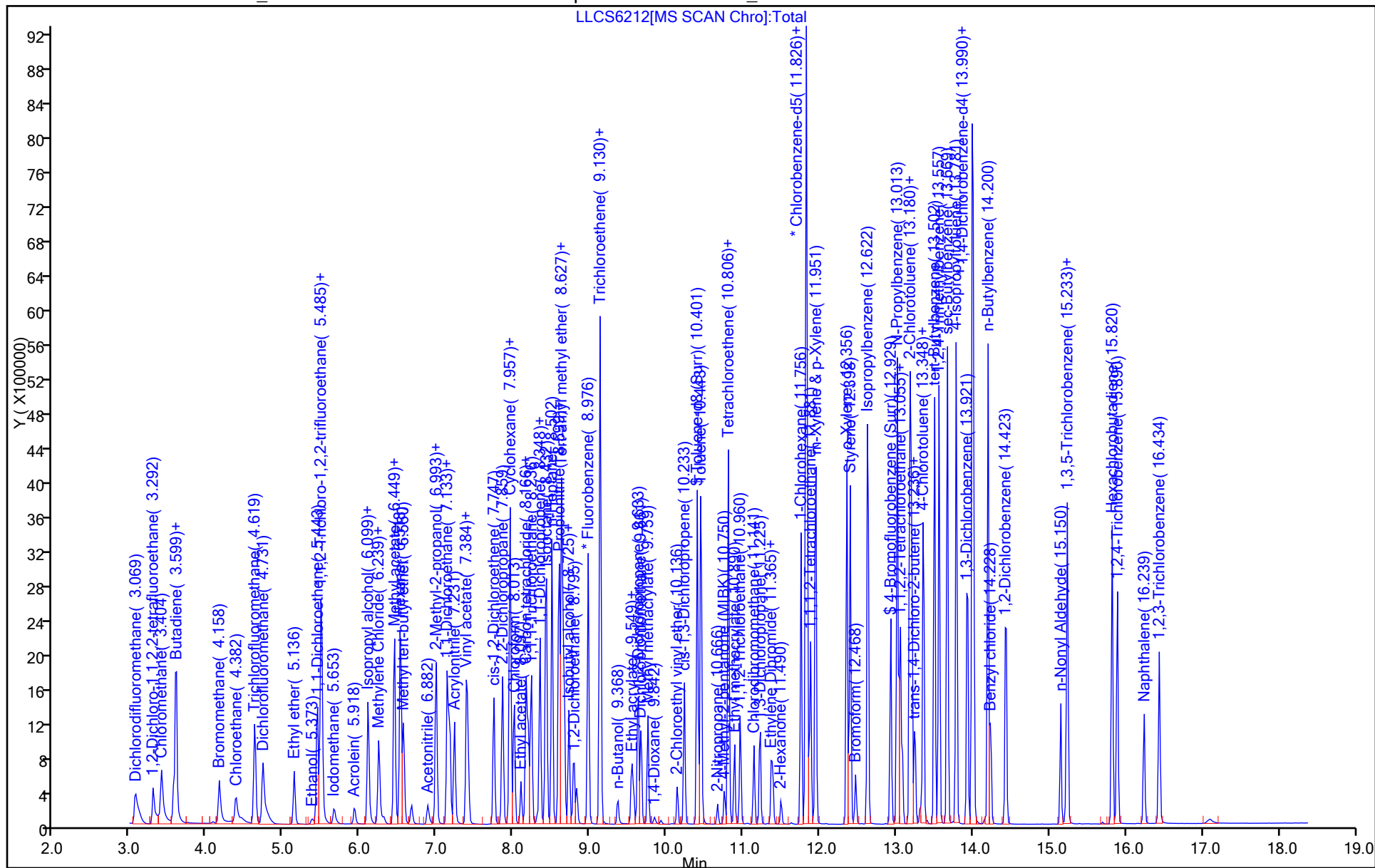
8260 Surr 25_00066

Amount Added: 10.00

Units: uL

Run Reagent

Limit Group: MSV-8260 DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LLCS6212.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 21-Oct-2016 10:48:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: LCSD
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 24-Oct-2016 12:46:42 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 21-Oct-2016 11:37:34

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	49.5	98.96
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	49.3	98.62
\$ 62 Toluene-d8 (Surr)	50.0	52.6	105.23
\$ 86 4-Bromofluorobenzene (Surr)	50.0	52.3	104.69

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica St. Louis</u>	Job No.: <u>280-89533-1</u>
SDG No.: _____	
Client Sample ID: <u>6MW2002MS MS</u>	Lab Sample ID: <u>280-89533-1 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>LSMP6216.D</u>
Analysis Method: <u>8260C DOD</u>	Date Collected: <u>10/11/2016 15:31</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/21/2016 12:28</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RTXVMS30</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275504</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	48.9		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	48.8		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	47.1		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	49.2		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	48.2		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	48.8		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	51.3		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	45.4		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	48.7		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	52.3		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	51.8		10	2.0	1.2
106-93-4	1,2-Dibromoethane	50.5		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	50.2		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	50.2		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	53.6		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	49.9		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	50.1		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	46.7		20	5.0	0.39
95-49-8	2-Chlorotoluene	49.7		5.0	2.0	0.34
591-78-6	2-Hexanone	49.7		20	2.0	0.59
106-43-4	4-Chlorotoluene	51.6		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	52.8		20	2.0	0.33
67-64-1	Acetone	45.7		20	10	6.7
71-43-2	Benzene	48.7		5.0	1.0	0.25
108-86-1	Bromobenzene	48.7		5.0	2.0	0.33
74-97-5	Bromochloromethane	49.8		5.0	2.0	0.55
75-27-4	Bromodichloromethane	50.1		5.0	2.0	0.25
75-25-2	Bromoform	48.9		5.0	1.0	0.37
74-83-9	Bromomethane	31.6		10	2.0	0.40
75-15-0	Carbon disulfide	48.7		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	49.1		5.0	1.0	0.36
108-90-7	Chlorobenzene	48.8		5.0	1.0	0.38
75-00-3	Chloroethane	48.6		10	1.0	0.38
67-66-3	Chloroform	48.9		5.0	1.0	0.15
74-87-3	Chloromethane	43.4		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	54.2		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1
 SDG No.: _____
 Client Sample ID: 6MW2002MS MS Lab Sample ID: 280-89533-1 MS
 Matrix: Water Lab File ID: LSMP6216.D
 Analysis Method: 8260C DOD Date Collected: 10/11/2016 15:31
 Sample wt/vol: 5 (mL) Date Analyzed: 10/21/2016 12:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	51.1		5.0	1.0	0.34
124-48-1	Dibromochloromethane	50.1		5.0	1.0	0.33
74-95-3	Dibromomethane	49.8		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	58.2		10	2.0	0.45
100-41-4	Ethylbenzene	50.5		5.0	1.0	0.30
98-82-8	Isopropylbenzene	52.6		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	52.2		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	52.1		5.0	2.0	0.40
75-09-2	Methylene Chloride	47.5		7.5	5.0	1.7
91-20-3	Naphthalene	47.1		5.0	2.0	0.85
104-51-8	n-Butylbenzene	53.4		5.0	2.0	0.23
103-65-1	N-Propylbenzene	52.9		5.0	2.0	0.30
95-47-6	o-Xylene	54.0		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	53.8		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	52.6		5.0	2.0	0.31
100-42-5	Styrene	54.1		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	52.5		5.0	2.0	0.31
127-18-4	Tetrachloroethene	49.6		5.0	1.0	0.28
108-88-3	Toluene	50.6		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	49.3		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	53.0		5.0	1.0	0.35
79-01-6	Trichloroethene	49.3		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	48.8		5.0	2.0	0.22
75-01-4	Vinyl chloride	50.8		5.0	1.0	0.43
1330-20-7	Xylenes (total)	106		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		81-118
460-00-4	4-Bromofluorobenzene (Surr)	104		85-114
1868-53-7	Dibromofluoromethane (Surr)	105		80-119
2037-26-5	Toluene-d8 (Surr)	104		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6216.D
 Lims ID: 280-89533-A-1 MS
 Client ID: 6MW2002MS
 Sample Type: MS
 Inject. Date: 21-Oct-2016 12:28:30 ALS Bottle#: 7 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0008795-010
 Misc. Info.: 280-89533-b-1 ms
 Operator ID: ADB Instrument ID: VMSL
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 12:46:42 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:30:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.069	3.069	0.000	99	777273	50.0	58.2	M
2 1,2-Dichloro-1,1,2,2-tetra	135	3.292	3.292	0.000	99	383118	50.0	47.4	
3 Chloromethane	50	3.404	3.404	0.000	99	658550	50.0	43.4	
4 Vinyl chloride	62	3.558	3.558	0.000	98	808552	50.0	50.8	
122 Butadiene	39	3.599	3.585	0.014	89	697282	50.0	46.5	
5 Bromomethane	94	4.158	4.158	0.000	91	267790	50.0	31.6	
6 Chloroethane	64	4.368	4.382	-0.014	99	391480	50.0	48.6	
7 Trichlorofluoromethane	101	4.619	4.619	0.000	99	1050157	50.0	48.8	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	99	1149004	50.0	47.8	
8 Ethyl ether	74	5.136	5.136	0.000	90	255798	50.0	52.2	
11 Ethanol	45	5.373	5.373	0.000	99	99069	2000.0	1950.1	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	98	555818	50.0	48.8	
10 Carbon disulfide	76	5.485	5.485	0.000	99	2072785	50.0	48.7	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	89	515022	50.0	47.5	
13 Iodomethane	142	5.652	5.666	-0.014	100	317231	50.0	46.4	
S 26 1,2-Dichloroethene, Total	96				0			103.5	
14 Acrolein	56	5.932	5.932	0.000	100	139194	250.0	219.7	
15 3-Chloro-1-propene	39	6.099	6.099	0.000	91	600903	50.0	51.1	
16 Isopropyl alcohol	45	6.127	6.127	0.000	97	149818	500.0	560.6	
17 Methylene Chloride	84	6.239	6.239	0.000	90	515903	50.0	47.5	
18 Acetone	43	6.309	6.309	0.000	99	67707	50.0	45.7	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	99	595040	50.0	49.3	
20 Methyl acetate	74	6.449	6.449	0.000	97	216696	250.0	252.2	
21 Hexane	86	6.518	6.518	0.000	89	214959	50.0	51.0	
22 Methyl tert-butyl ether	73	6.560	6.560	0.000	89	1069391	50.0	52.1	
24 Acetonitrile	41	6.882	6.882	0.000	99	269728	500.0	477.4	
25 Isopropyl ether	45	6.993	6.993	0.000	92	1367157	50.0	52.8	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	35	170775	500.0	520.6	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	91	921137	50.0	51.9	
28 1,1-Dichloroethane	63	7.161	7.161	0.000	95	1035919	50.0	48.2	
29 Acrylonitrile	53	7.231	7.231	0.000	99	883286	500.0	503.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.384	7.384	0.000	97	1278278	50.0	53.5	
31 Vinyl acetate	43	7.412	7.412	0.000	97	761248	50.0	53.1	
32 cis-1,2-Dichloroethene	96	7.747	7.747	0.000	78	640713	50.0	54.2	
33 2,2-Dichloropropane	77	7.859	7.859	0.000	88	989603	50.0	50.1	
35 Chlorobromomethane	128	7.957	7.957	0.000	55	217220	50.0	49.8	
34 Cyclohexane	84	7.957	7.957	0.000	88	1071688	50.0	51.6	
36 Chloroform	83	8.013	8.013	0.000	92	1010541	50.0	48.9	
39 Ethyl acetate	45	8.097	8.097	0.000	99	65653	100.0	102.3	
37 Carbon tetrachloride	117	8.166	8.166	0.000	97	901819	50.0	49.1	
38 Tetrahydrofuran	71	8.180	8.180	0.000	84	58848	100.0	109.6	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.194	0.000	95	455725	50.0	52.3	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	97	1007330	50.0	48.8	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	100	104753	50.0	46.7	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	98	887377	50.0	51.3	
125 Isooctane	57	8.432	8.432	0.000	100	2584189	50.0	51.3	
117 n-Heptane	43	8.502	8.502	0.000	91	1054353	50.0	51.5	
44 Benzene	78	8.599	8.599	0.000	95	2400696	50.0	48.7	
45 Propionitrile	54	8.613	8.613	0.000	97	338330	500.0	493.6	
46 Methacrylonitrile	41	8.627	8.627	0.000	91	1695451	500.0	505.7	
48 Tert-amyl methyl ether	73	8.655	8.655	0.000	98	1148813	50.0	52.3	
50 Isobutyl alcohol	42	8.725	8.725	0.000	66	155682	1250.0	1306.0	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	94	484348	50.0	51.1	
49 1,2-Dichloroethane	62	8.795	8.781	0.014	98	573392	50.0	50.2	
* 51 Fluorobenzene	96	8.976	8.976	0.000	99	2245847	50.0	50.0	
118 1,4-Difluorobenzene	114		9.130					ND	
52 Methylcyclohexane	55	9.130	9.130	0.000	88	918286	50.0	50.2	
53 Trichloroethene	95	9.130	9.130	0.000	63	642839	50.0	49.3	
54 n-Butanol	56	9.368	9.368	0.000	89	156797	1250.0	1327.8	
55 Dibromomethane	93	9.549	9.549	0.000	95	232277	50.0	49.8	
124 Ethyl acrylate	55	9.563	9.563	0.000	99	312928	50.0	46.7	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	95	533245	50.0	50.2	
57 Dichlorobromomethane	83	9.661	9.661	0.000	99	664863	50.0	50.1	
58 Methyl methacrylate	69	9.759	9.759	0.000	87	437775	100.0	98.1	
59 1,4-Dioxane	88	9.842	9.842	0.000	93	59430	1000.0	1082.4	
60 2-Chloroethyl vinyl ether	63	10.136	10.136	0.000	82	3261	50.0	3.91	
61 cis-1,3-Dichloropropene	75	10.233	10.233	0.000	96	777772	50.0	51.1	
128 2-Pentanone	43		10.253					ND	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	2086841	50.0	52.1	
63 Toluene	92	10.443	10.443	0.000	99	1559560	50.0	50.6	
64 2-Nitropropane	43	10.666	10.666	0.000	99	134526	100.0	104.0	
66 4-Methyl-2-pentanone (MIBK	43	10.750	10.750	0.000	96	220422	50.0	52.8	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	90	675674	50.0	53.0	
65 Tetrachloroethene	164	10.806	10.806	0.000	98	575460	50.0	49.6	
69 Ethyl methacrylate	69	10.890	10.890	0.000	87	433462	50.0	46.8	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	92	295758	50.0	49.2	
70 Chlorodibromomethane	129	11.141	11.141	0.000	90	407696	50.0	50.1	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	89	632891	50.0	49.9	
119 n-Butyl acetate	43	11.365	11.365	0.000	94	382014	50.0	45.9	
72 Ethylene Dibromide	107	11.393	11.393	0.000	98	325726	50.0	50.5	
74 2-Hexanone	43	11.490	11.490	0.000	96	152932	50.0	49.7	
S 73 1,3-Dichloropropene, Total	75				0			104.1	
75 1-Chlorohexane	91	11.756	11.756	0.000	96	939675	50.0	50.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	11.826	11.826	0.000	98	3049673	50.0	50.5	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	92	1595453	50.0	50.0	
77 Chlorobenzene	112	11.840	11.840	0.000	96	1602645	50.0	48.8	
79 1,1,1,2-Tetrachloroethane	131	11.881	11.881	0.000	94	536319	50.0	48.9	
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	97	1178800	50.0	52.2	
82 o-Xylene	106	12.356	12.356	0.000	96	1051212	50.0	54.0	
83 Styrene	104	12.398	12.398	0.000	94	1662027	50.0	54.1	
84 Bromoform	173	12.468	12.468	0.000	97	236934	50.0	48.9	
85 Isopropylbenzene	105	12.622	12.622	0.000	97	3088371	50.0	52.6	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	92	722943	50.0	52.1	
88 N-Propylbenzene	91	13.013	13.013	0.000	98	3616109	50.0	52.9	
87 Bromobenzene	156	13.055	13.055	0.000	89	646282	50.0	48.7	
89 1,1,2,2-Tetrachloroethane	83	13.083	13.083	0.000	96	380521	50.0	47.1	
91 1,3,5-Trimethylbenzene	105	13.180	13.180	0.000	95	2517411	50.0	53.6	
90 2-Chlorotoluene	91	13.194	13.194	0.000	97	2324119	50.0	49.7	
92 1,2,3-Trichloropropane	110	13.236	13.236	0.000	85	122643	50.0	48.7	
93 trans-1,4-Dichloro-2-buten	53	13.250	13.250	0.000	92	105140	50.0	49.8	
94 Cyclohexanone	55	13.320	13.320	0.000	87	76702	500.0	469.6	
95 4-Chlorotoluene	91	13.348	13.348	0.000	99	2109588	50.0	51.6	
96 tert-Butylbenzene	119	13.502	13.502	0.000	93	2254906	50.0	52.5	
81 Pentachloroethane	167		13.557					ND	
97 1,2,4-Trimethylbenzene	105	13.557	13.557	0.000	97	2548354	50.0	52.3	
98 sec-Butylbenzene	105	13.669	13.669	0.000	94	3525366	50.0	52.6	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	97	2948022	50.0	53.8	
100 1,3-Dichlorobenzene	146	13.934	13.934	0.000	98	1335850	50.0	49.7	
120 1,2,3-Trimethylbenzene	105	13.990	13.990	0.000	95	2392600	50.0	50.6	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.990	0.000	76	841470	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.004	14.004	0.000	95	1345459	50.0	49.0	
103 n-Butylbenzene	134	14.200	14.200	0.000	96	778504	50.0	53.4	
121 Benzyl chloride	126	14.242	14.242	0.000	95	174535	50.0	51.7	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	99	1137562	50.0	50.0	
106 n-Nonyl Aldehyde	57	15.150	15.150	0.000	91	228937	50.0	48.1	
105 1,2-Dibromo-3-Chloropropan	157	15.219	15.219	0.000	85	75003	50.0	51.8	
107 1,3,5-Trichlorobenzene	180	15.233	15.233	0.000	98	1140739	50.0	51.0	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	96	669978	50.0	50.9	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	94	887930	50.0	51.1	
110 Naphthalene	128	16.239	16.239	0.000	97	1010636	50.0	47.1	
111 1,2,3-Trichlorobenzene	180	16.434	16.434	0.000	96	629103	50.0	45.4	
S 112 Xylenes, Total	106				0			106.2	
126 C6-C12	1		0.000					ND	
S 113 Trihalomethanes, Total	1				0			198.0	
127 2-Methylpentane	1		0.000					ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 NewWkMix_00188

Amount Added: 10.00

Units: uL

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00066

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6216.D

Injection Date: 21-Oct-2016 12:28:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: 280-89533-A-1 MS

Worklist Smp#: 10

Client ID: 6MW2002MS

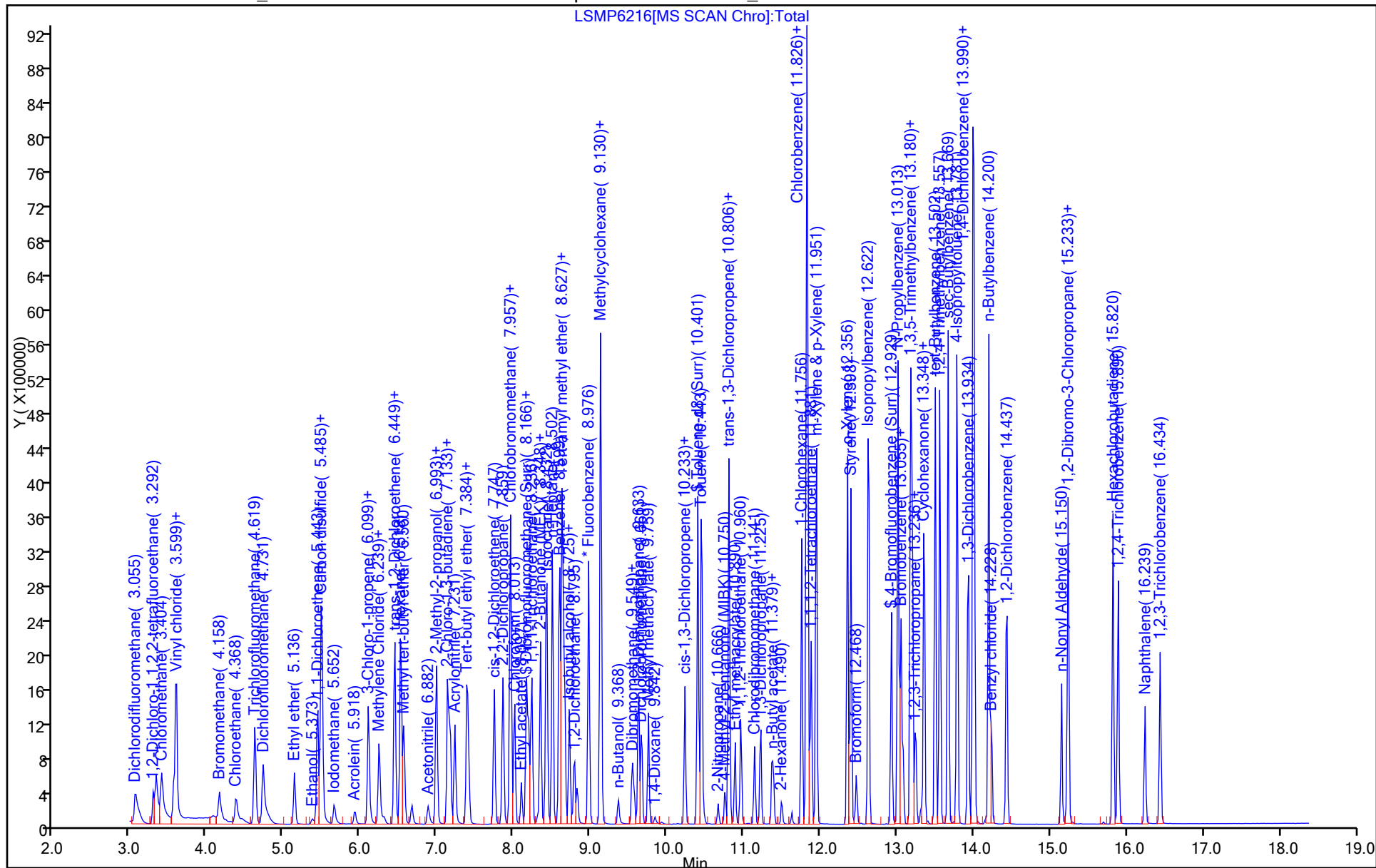
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6216.D
Lims ID: 280-89533-A-1 MS
Client ID: 6MW2002MS
Sample Type: MS
Inject. Date: 21-Oct-2016 12:28:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0008795-010
Misc. Info.: 280-89533-b-1 ms
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 24-Oct-2016 12:46:42 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:30:44

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	52.3	104.65
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.1	102.27
\$ 62 Toluene-d8 (Surr)	50.0	52.1	104.26
\$ 86 4-Bromofluorobenzene (Surr)	50.0	52.1	104.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica St. Louis</u>	Job No.: <u>280-89533-1</u>
SDG No.: _____	
Client Sample ID: <u>6MW2002MSD MSD</u>	Lab Sample ID: <u>280-89533-1 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>LSMP6217.D</u>
Analysis Method: <u>8260C DOD</u>	Date Collected: <u>10/11/2016 15:31</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>10/21/2016 12:53</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RTXVMS30</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>275504</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	48.3		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	47.2		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	47.5		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	48.5		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	46.8		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	47.6		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	49.5		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	49.0		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	48.6		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	50.8		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	52.3		10	2.0	1.2
106-93-4	1,2-Dibromoethane	50.2		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	48.5		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	49.4		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	52.4		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	49.9		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	48.2		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	47.7		20	5.0	0.39
95-49-8	2-Chlorotoluene	48.8		5.0	2.0	0.34
591-78-6	2-Hexanone	50.5		20	2.0	0.59
106-43-4	4-Chlorotoluene	50.5		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	53.7		20	2.0	0.33
67-64-1	Acetone	47.3		20	10	6.7
71-43-2	Benzene	47.5		5.0	1.0	0.25
108-86-1	Bromobenzene	48.4		5.0	2.0	0.33
74-97-5	Bromochloromethane	49.8		5.0	2.0	0.55
75-27-4	Bromodichloromethane	49.3		5.0	2.0	0.25
75-25-2	Bromoform	49.6		5.0	1.0	0.37
74-83-9	Bromomethane	29.1		10	2.0	0.40
75-15-0	Carbon disulfide	47.7		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	46.8		5.0	1.0	0.36
108-90-7	Chlorobenzene	47.4		5.0	1.0	0.38
75-00-3	Chloroethane	46.1		10	1.0	0.38
67-66-3	Chloroform	47.0		5.0	1.0	0.15
74-87-3	Chloromethane	44.0		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	53.6		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-89533-1

SDG No.: _____

Client Sample ID: 6MW2002MSD MSD Lab Sample ID: 280-89533-1 MSD

Matrix: Water Lab File ID: LSMP6217.D

Analysis Method: 8260C DOD Date Collected: 10/11/2016 15:31

Sample wt/vol: 5 (mL) Date Analyzed: 10/21/2016 12:53

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 275504 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	51.3		5.0	1.0	0.34
124-48-1	Dibromochloromethane	49.8		5.0	1.0	0.33
74-95-3	Dibromomethane	49.8		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	56.6		10	2.0	0.45
100-41-4	Ethylbenzene	48.4		5.0	1.0	0.30
98-82-8	Isopropylbenzene	51.6		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	50.5		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	52.2		5.0	2.0	0.40
75-09-2	Methylene Chloride	47.0		7.5	5.0	1.7
91-20-3	Naphthalene	50.0		5.0	2.0	0.85
104-51-8	n-Butylbenzene	52.3		5.0	2.0	0.23
103-65-1	N-Propylbenzene	52.0		5.0	2.0	0.30
95-47-6	o-Xylene	53.1		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	52.1		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	50.8		5.0	2.0	0.31
100-42-5	Styrene	53.0		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	51.5		5.0	2.0	0.31
127-18-4	Tetrachloroethene	47.7		5.0	1.0	0.28
108-88-3	Toluene	49.0		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	48.2		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	52.4		5.0	1.0	0.35
79-01-6	Trichloroethene	47.7		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	46.4		5.0	2.0	0.22
75-01-4	Vinyl chloride	51.1		5.0	1.0	0.43
1330-20-7	Xylenes (total)	104		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		81-118
460-00-4	4-Bromofluorobenzene (Surr)	106		85-114
1868-53-7	Dibromofluoromethane (Surr)	104		80-119
2037-26-5	Toluene-d8 (Surr)	103		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6217.D
 Lims ID: 280-89533-A-1 MSD
 Client ID: 6MW2002MSD
 Sample Type: MSD
 Inject. Date: 21-Oct-2016 12:53:30 ALS Bottle#: 8 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0008795-011
 Misc. Info.: 280-89533-a-1 msd
 Operator ID: ADB Instrument ID: VMSL
 Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Oct-2016 12:46:42 Calib Date: 20-Oct-2016 15:55:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: buettnera Date: 24-Oct-2016 11:31:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	3.069	3.069	0.000	99	814730	50.0	56.6	M
2 1,2-Dichloro-1,1,2,2-tetra	135	3.292	3.292	0.000	99	408195	50.0	46.9	
3 Chloromethane	50	3.404	3.404	0.000	99	719597	50.0	44.0	
4 Vinyl chloride	62	3.572	3.558	0.014	98	875307	50.0	51.1	
122 Butadiene	39	3.600	3.585	0.015	91	736738	50.0	45.7	
5 Bromomethane	94	4.158	4.158	0.000	91	265285	50.0	29.1	
6 Chloroethane	64	4.382	4.382	0.000	99	400356	50.0	46.1	
7 Trichlorofluoromethane	101	4.619	4.619	0.000	98	1073838	50.0	46.4	
123 Dichlorofluoromethane	67	4.731	4.731	0.000	99	1189867	50.0	46.0	
8 Ethyl ether	74	5.136	5.136	0.000	90	274498	50.0	52.1	
11 Ethanol	45	5.373	5.373	0.000	99	115516	2000.0	2113.4	
9 1,1-Dichloroethene	96	5.443	5.443	0.000	98	583130	50.0	47.6	
10 Carbon disulfide	76	5.485	5.485	0.000	99	2182981	50.0	47.7	
12 1,1,2-Trichloro-1,2,2-trif	151	5.499	5.499	0.000	90	548934	50.0	47.1	
13 Iodomethane	142	5.653	5.666	-0.013	99	345155	50.0	46.9	
S 26 1,2-Dichloroethene, Total	96				0			101.8	
14 Acrolein	56	5.932	5.932	0.000	100	168063	250.0	246.6	
15 3-Chloro-1-propene	39	6.099	6.099	0.000	92	629587	50.0	49.8	
16 Isopropyl alcohol	45	6.127	6.127	0.000	97	164001	500.0	570.3	
17 Methylene Chloride	84	6.239	6.239	0.000	90	549156	50.0	47.0	
18 Acetone	43	6.309	6.309	0.000	100	75107	50.0	47.3	
19 trans-1,2-Dichloroethene	96	6.449	6.449	0.000	99	626256	50.0	48.2	
20 Methyl acetate	74	6.449	6.449	0.000	97	240384	250.0	260.0	
21 Hexane	86	6.518	6.518	0.000	89	226665	50.0	50.0	
22 Methyl tert-butyl ether	73	6.560	6.560	0.000	89	1153905	50.0	52.2	
24 Acetonitrile	41	6.882	6.882	0.000	99	298305	500.0	490.7	
25 Isopropyl ether	45	6.993	6.993	0.000	93	1473211	50.0	52.8	
23 2-Methyl-2-propanol	59	6.993	6.993	0.000	35	182915	500.0	518.3	
27 2-Chloro-1,3-butadiene	53	7.133	7.133	0.000	90	963409	50.0	50.4	
28 1,1-Dichloroethane	63	7.161	7.161	0.000	95	1082394	50.0	46.8	
29 Acrylonitrile	53	7.231	7.231	0.000	99	958610	500.0	508.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	7.384	7.384	0.000	97	1376285	50.0	53.6	
31 Vinyl acetate	43	7.412	7.412	0.000	97	818612	50.0	53.0	
32 cis-1,2-Dichloroethene	96	7.748	7.747	0.001	77	681670	50.0	53.6	
33 2,2-Dichloropropane	77	7.859	7.859	0.000	88	1022752	50.0	48.2	
35 Chlorobromomethane	128	7.957	7.957	0.000	56	233746	50.0	49.8	
34 Cyclohexane	84	7.957	7.957	0.000	87	1114236	50.0	49.9	
36 Chloroform	83	8.013	8.013	0.000	92	1044999	50.0	47.0	
39 Ethyl acetate	45	8.097	8.097	0.000	99	72096	100.0	104.4	
37 Carbon tetrachloride	117	8.166	8.166	0.000	97	924422	50.0	46.8	
38 Tetrahydrofuran	71	8.180	8.180	0.000	84	66419	100.0	115.0	
\$ 41 Dibromofluoromethane (Surr	113	8.194	8.194	0.000	95	488359	50.0	52.1	
40 1,1,1-Trichloroethane	97	8.236	8.236	0.000	97	1047449	50.0	47.2	
43 2-Butanone (MEK)	43	8.306	8.306	0.000	100	115079	50.0	47.7	
42 1,1-Dichloropropene	75	8.348	8.348	0.000	98	921839	50.0	49.5	
125 Isooctane	57	8.432	8.432	0.000	100	2688646	50.0	49.6	
117 n-Heptane	43	8.502	8.502	0.000	91	1093276	50.0	49.6	
44 Benzene	78	8.599	8.599	0.000	95	2515967	50.0	47.5	
45 Propionitrile	54	8.613	8.613	0.000	97	366829	500.0	497.4	
46 Methacrylonitrile	41	8.627	8.627	0.000	91	1810561	500.0	502.0	
48 Tert-amyl methyl ether	73	8.655	8.655	0.000	99	1232803	50.0	52.1	
50 Isobutyl alcohol	42	8.725	8.725	0.000	69	174503	1250.0	1360.6	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	8.725	8.725	0.000	93	509373	50.0	50.0	
49 1,2-Dichloroethane	62	8.795	8.781	0.014	98	596550	50.0	48.5	
* 51 Fluorobenzene	96	8.977	8.976	0.001	99	2416327	50.0	50.0	
118 1,4-Difluorobenzene	114		9.130					ND	
52 Methylcyclohexane	55	9.130	9.130	0.000	87	949490	50.0	48.2	
53 Trichloroethene	95	9.130	9.130	0.000	64	669486	50.0	47.7	
54 n-Butanol	56	9.368	9.368	0.000	88	184464	1250.0	1438.6	
55 Dibromomethane	93	9.549	9.549	0.000	95	249582	50.0	49.8	
124 Ethyl acrylate	55	9.563	9.563	0.000	100	350131	50.0	48.4	
56 1,2-Dichloropropane	63	9.633	9.633	0.000	95	565147	50.0	49.4	
57 Dichlorobromomethane	83	9.661	9.661	0.000	99	704059	50.0	49.3	
58 Methyl methacrylate	69	9.759	9.759	0.000	86	477983	100.0	99.5	
59 1,4-Dioxane	88	9.842	9.842	0.000	92	65761	1000.0	1113.2	
60 2-Chloroethyl vinyl ether	63		10.136				ND	ND	
61 cis-1,3-Dichloropropene	75	10.234	10.233	0.001	96	839823	50.0	51.3	
128 2-Pentanone	43		10.253					ND	
\$ 62 Toluene-d8 (Surr)	98	10.401	10.401	0.000	93	2220491	50.0	51.3	
63 Toluene	92	10.443	10.443	0.000	99	1632595	50.0	49.0	
64 2-Nitropropane	43	10.666	10.666	0.000	99	148946	100.0	106.3	
66 4-Methyl-2-pentanone (MIBK	43	10.750	10.750	0.000	96	242821	50.0	53.7	
67 trans-1,3-Dichloropropene	75	10.806	10.806	0.000	91	722247	50.0	52.4	
65 Tetrachloroethene	164	10.806	10.806	0.000	98	598278	50.0	47.7	
69 Ethyl methacrylate	69	10.890	10.890	0.000	87	476001	50.0	47.5	
68 1,1,2-Trichloroethane	83	10.960	10.960	0.000	92	314813	50.0	48.5	
70 Chlorodibromomethane	129	11.141	11.141	0.000	90	437801	50.0	49.8	
71 1,3-Dichloropropane	76	11.225	11.225	0.000	89	682935	50.0	49.9	
119 n-Butyl acetate	43	11.365	11.365	0.000	95	419605	50.0	46.6	
72 Ethylene Dibromide	107	11.393	11.393	0.000	98	349814	50.0	50.2	
74 2-Hexanone	43	11.490	11.490	0.000	96	167696	50.0	50.5	
S 73 1,3-Dichloropropene, Total	75				0			103.7	
75 1-Chlorohexane	91	11.756	11.756	0.000	96	999570	50.0	49.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	11.826	11.826	0.000	98	3157035	50.0	48.4	
* 76 Chlorobenzene-d5	117	11.826	11.826	0.000	93	1723732	50.0	50.0	
77 Chlorobenzene	112	11.840	11.840	0.000	96	1682138	50.0	47.4	
79 1,1,1,2-Tetrachloroethane	131	11.882	11.881	0.001	94	572827	50.0	48.3	
80 m-Xylene & p-Xylene	106	11.951	11.951	0.000	97	1233687	50.0	50.5	
82 o-Xylene	106	12.356	12.356	0.000	96	1115514	50.0	53.1	
83 Styrene	104	12.398	12.398	0.000	94	1757555	50.0	53.0	
84 Bromoform	173	12.468	12.468	0.000	97	253681	50.0	49.6	
85 Isopropylbenzene	105	12.622	12.622	0.000	97	3200753	50.0	51.6	
\$ 86 4-Bromofluorobenzene (Surr	95	12.929	12.929	0.000	93	775194	50.0	52.9	
88 N-Propylbenzene	91	13.013	13.013	0.000	98	3749747	50.0	52.0	
87 Bromobenzene	156	13.055	13.055	0.000	88	678601	50.0	48.4	
89 1,1,2,2-Tetrachloroethane	83	13.083	13.083	0.000	95	405330	50.0	47.5	
91 1,3,5-Trimethylbenzene	105	13.180	13.180	0.000	95	2602587	50.0	52.4	
90 2-Chlorotoluene	91	13.194	13.194	0.000	97	2407773	50.0	48.8	
92 1,2,3-Trichloropropane	110	13.236	13.236	0.000	85	129419	50.0	48.6	
93 trans-1,4-Dichloro-2-buten	53	13.250	13.250	0.000	92	111541	50.0	50.1	
94 Cyclohexanone	55	13.320	13.320	0.000	87	86275	500.0	497.0	
95 4-Chlorotoluene	91	13.348	13.348	0.000	99	2180882	50.0	50.5	
96 tert-Butylbenzene	119	13.502	13.502	0.000	92	2336552	50.0	51.5	
81 Pentachloroethane	167		13.557					ND	
97 1,2,4-Trimethylbenzene	105	13.557	13.557	0.000	97	2610028	50.0	50.8	
98 sec-Butylbenzene	105	13.669	13.669	0.000	94	3596631	50.0	50.8	
99 4-Isopropyltoluene	119	13.781	13.781	0.000	97	3014545	50.0	52.1	
100 1,3-Dichlorobenzene	146	13.935	13.934	0.001	98	1375183	50.0	48.4	
120 1,2,3-Trimethylbenzene	105	13.990	13.990	0.000	95	2463635	50.0	49.3	
* 101 1,4-Dichlorobenzene-d4	152	13.990	13.990	0.000	76	888588	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.004	14.004	0.000	95	1376141	50.0	47.5	
103 n-Butylbenzene	134	14.200	14.200	0.000	95	805110	50.0	52.3	
121 Benzyl chloride	126	14.228	14.242	-0.014	95	183085	50.0	51.4	
104 1,2-Dichlorobenzene	146	14.437	14.437	0.000	99	1178052	50.0	49.0	
106 n-Nonyl Aldehyde	57	15.150	15.150	0.000	91	248649	50.0	49.2	
105 1,2-Dibromo-3-Chloropropan	157	15.219	15.219	0.000	86	80065	50.0	52.3	
107 1,3,5-Trichlorobenzene	180	15.233	15.233	0.000	98	1180240	50.0	50.0	
108 Hexachlorobutadiene	225	15.820	15.820	0.000	96	684307	50.0	49.3	
109 1,2,4-Trichlorobenzene	180	15.890	15.890	0.000	94	939433	50.0	51.2	
110 Naphthalene	128	16.239	16.239	0.000	97	1138740	50.0	50.0	
111 1,2,3-Trichlorobenzene	180	16.435	16.434	0.000	96	718022	50.0	49.0	
S 112 Xylenes, Total	106				0			103.6	
126 C6-C12	1		0.000					ND	
S 113 Trihalomethanes, Total	1				0			195.7	
127 2-Methylpentane	1		0.000					ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 NewWkMix_00188

Amount Added: 10.00

Units: uL

I.S. Working_00138

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00066

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VM\SL\20161021-8795.b\LSMP6217.D

Injection Date: 21-Oct-2016 12:53:30

Instrument ID: VMSL

Operator ID: ADB

Lims ID: 280-89533-A-1 MSD

Worklist Smp#: 11

Client ID: 6MW2002MSD

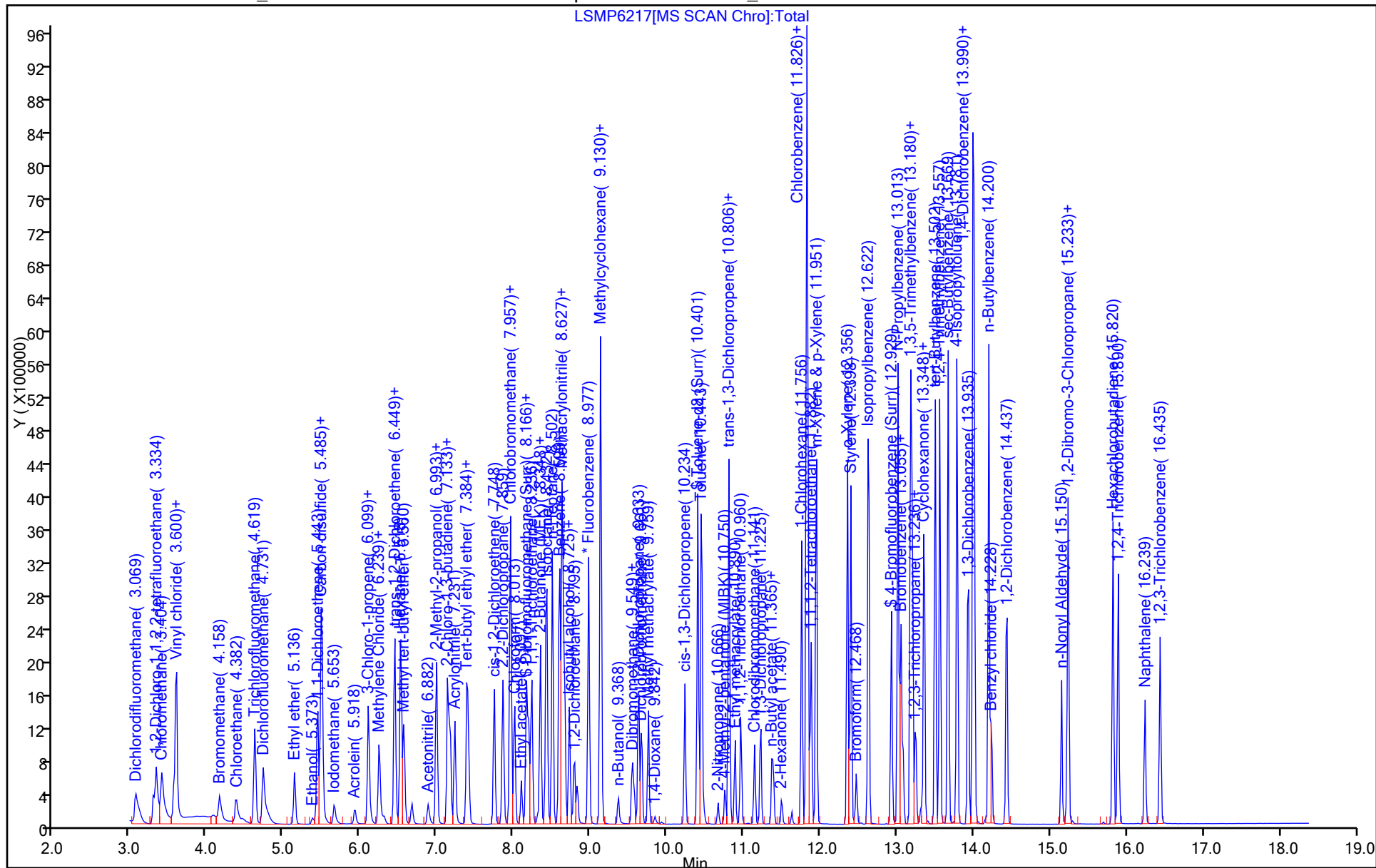
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 5mL-8260_VMSL

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\LSMP6217.D
Lims ID: 280-89533-A-1 MSD
Client ID: 6MW2002MSD
Sample Type: MSD
Inject. Date: 21-Oct-2016 12:53:30 ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0008795-011
Misc. Info.: 280-89533-a-1 msd
Operator ID: ADB Instrument ID: VMSL
Method: \\ChromNA\StLouis\ChromData\VMSL\20161021-8795.b\5mL-8260_VMSL.m
Limit Group: MSV-8260_DoD
Last Update: 24-Oct-2016 12:46:42 Calib Date: 20-Oct-2016 15:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSL\20161020-8778.b\LICL6169.D

Column 1 : Det: MS SCAN

Process Host: XAWRK038

First Level Reviewer: buettnera

Date: 24-Oct-2016 11:31:33

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	52.1	104.23
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.0	99.97
\$ 62 Toluene-d8 (Surr)	50.0	51.3	102.68
\$ 86 4-Bromofluorobenzene (Surr)	50.0	52.9	105.76

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. LouisJob No.: 280-89533-1

SDG No.: _____

Instrument ID: VMSLStart Date: 10/20/2016 10:29Analysis Batch Number: 275235End Date: 10/20/2016 20:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-275235/1		10/20/2016 10:29	1	LBFB6156.D	RTXVMS30 0.25 (mm)
IC 160-275235/5		10/20/2016 11:15	1	LICL6158.D	RTXVMS30 0.25 (mm)
IC 160-275235/6		10/20/2016 11:41	1	LICL6159.D	RTXVMS30 0.25 (mm)
IC 160-275235/7		10/20/2016 12:06	1	LICL6160.D	RTXVMS30 0.25 (mm)
IC 160-275235/9		10/20/2016 12:56	1	LICL6162.D	RTXVMS30 0.25 (mm)
IC 160-275235/11		10/20/2016 13:46	1	LICL6164.D	RTXVMS30 0.25 (mm)
IC 160-275235/12		10/20/2016 14:11	1	LICL6165.D	RTXVMS30 0.25 (mm)
ICIS 160-275235/15		10/20/2016 15:05	1	LICL6167.D	RTXVMS30 0.25 (mm)
IC 160-275235/16		10/20/2016 15:55	1	LICL6169.D	RTXVMS30 0.25 (mm)
ICV 160-275235/17		10/20/2016 16:22	1	LICV6170.D	RTXVMS30 0.25 (mm)
ZZZZZ		10/20/2016 16:48	1		RTXVMS30 0.25 (mm)
ZZZZZ		10/20/2016 17:13	1		RTXVMS30 0.25 (mm)
ZZZZZ		10/20/2016 17:38	1		RTXVMS30 0.25 (mm)
ZZZZZ		10/20/2016 18:03	1		RTXVMS30 0.25 (mm)
ZZZZZ		10/20/2016 18:28	1		RTXVMS30 0.25 (mm)
ZZZZZ		10/20/2016 18:53	1		RTXVMS30 0.25 (mm)
ZZZZZ		10/20/2016 19:18	1		RTXVMS30 0.25 (mm)
ZZZZZ		10/20/2016 19:43	1		RTXVMS30 0.25 (mm)
CCVC 160-275235/27		10/20/2016 20:08	1		RTXVMS30 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. LouisJob No.: 280-89533-1

SDG No.: _____

Instrument ID: VMSLStart Date: 10/21/2016 09:33Analysis Batch Number: 275504End Date: 10/21/2016 17:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-275504/1		10/21/2016 09:33	1	LBFB6209.D	RTXVMS30 0.25 (mm)
CCV 160-275504/4		10/21/2016 09:57	1	LCCV6210.D	RTXVMS30 0.25 (mm)
LCS 160-275504/5		10/21/2016 10:23	1	LLCS6211.D	RTXVMS30 0.25 (mm)
LCSD 160-275504/6		10/21/2016 10:48	1	LLCS6212.D	RTXVMS30 0.25 (mm)
ZZZZZ		10/21/2016 11:13	1		RTXVMS30 0.25 (mm)
MB 160-275504/8		10/21/2016 11:38	1	LBLK6214.D	RTXVMS30 0.25 (mm)
280-89533-1		10/21/2016 12:03	1	LSMP6215.D	RTXVMS30 0.25 (mm)
280-89533-1 MS		10/21/2016 12:28	1	LSMP6216.D	RTXVMS30 0.25 (mm)
280-89533-1 MSD		10/21/2016 12:53	1	LSMP6217.D	RTXVMS30 0.25 (mm)
280-89533-2		10/21/2016 13:43	1	LSMP6219.D	RTXVMS30 0.25 (mm)
280-89533-3		10/21/2016 14:08	1	LSMP6220.D	RTXVMS30 0.25 (mm)
280-89533-4		10/21/2016 14:34	1	LSMP6221.D	RTXVMS30 0.25 (mm)
280-89533-5		10/21/2016 14:59	1	LSMP6222.D	RTXVMS30 0.25 (mm)
280-89533-6		10/21/2016 15:24	1	LSMP6223.D	RTXVMS30 0.25 (mm)
280-89533-7		10/21/2016 15:49	1	LSMP6224.D	RTXVMS30 0.25 (mm)
280-89533-8		10/21/2016 16:14	1	LSMP6225.D	RTXVMS30 0.25 (mm)
CCVC 160-275504/21		10/21/2016 17:04	1	LSMP6227.D	RTXVMS30 0.25 (mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job Number: 280-89533-1

SDG No.: _____

Project: Schenectady ANGB, NY

Client Sample ID

6MW2002

6MW2302

6MW2202

6MW2402

6MW2502

6MW2602

Lab Sample ID

280-89533-1

280-89533-3

280-89533-4

280-89533-5

280-89533-6

280-89533-7

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2002

Lab Sample ID: 280-89533-1

Lab Name: TestAmerica Denver

Job No.: 280-89533-1

SDG ID.:

Matrix: Water

Date Sampled: 10/11/2016 15:31

Reporting Basis: WET

Date Received: 10/12/2016 09:55

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	1.2	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2302

Lab Sample ID: 280-89533-3

Lab Name: TestAmerica Denver

Job No.: 280-89533-1

SDG ID.:

Matrix: Water

Date Sampled: 10/11/2016 12:51

Reporting Basis: WET

Date Received: 10/12/2016 09:55

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	41	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2202

Lab Sample ID: 280-89533-4

Lab Name: TestAmerica Denver

Job No.: 280-89533-1

SDG ID.:

Matrix: Water

Date Sampled: 10/11/2016 11:46

Reporting Basis: WET

Date Received: 10/12/2016 09:55

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	370	8.0	4.0	1.2	mg/L			8	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2402

Lab Sample ID: 280-89533-5

Lab Name: TestAmerica Denver

Job No.: 280-89533-1

SDG ID.:

Matrix: Water

Date Sampled: 10/11/2016 10:03

Reporting Basis: WET

Date Received: 10/12/2016 09:55

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	12	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2502

Lab Sample ID: 280-89533-6

Lab Name: TestAmerica Denver

Job No.: 280-89533-1

SDG ID.:

Matrix: Water

Date Sampled: 10/11/2016 14:39

Reporting Basis: WET

Date Received: 10/12/2016 09:55

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	110	3.3	1.7	0.52	mg/L			3.33	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2602

Lab Sample ID: 280-89533-7

Lab Name: TestAmerica Denver

Job No.: 280-89533-1

SDG ID.:

Matrix: Water

Date Sampled: 10/11/2016 13:39

Reporting Basis: WET

Date Received: 10/12/2016 09:55

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	70	1.8	0.90	0.28	mg/L			1.79	9060A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-89533-1
 SDG No.: _____
 Analyst: CCJ Batch Start Date: 10/24/2016
 Reporting Units: mg/L Analytical Batch No.: 348229

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	18:30	Total Organic Carbon - Quad	20.1	20.0	100	90-110		TOC ICV Std_00029
2	ICB	18:46	Total Organic Carbon - Quad	0.50				U	
28	CCV	02:29	Total Organic Carbon - Quad	25.4	25.0	101	90-110		TOC LCS Std_00033
29	CCB	02:45	Total Organic Carbon - Quad	0.50				U	
40	CCV	06:00	Total Organic Carbon - Quad	25.4	25.0	102	90-110		TOC LCS Std_00033
41	CCB	06:17	Total Organic Carbon - Quad	0.50				U	
52	CCV	09:28	Total Organic Carbon - Quad	25.3	25.0	101	90-110		TOC LCS Std_00033
53	CCB	09:43	Total Organic Carbon - Quad	0.50				U	
64	CCV	13:03	Total Organic Carbon - Quad	26.0	25.0	104	90-110		TOC LCS Std_00033
65	CCB	13:19	Total Organic Carbon - Quad	0.185				J	
68	CCV	14:11	Total Organic Carbon - Quad	25.8	25.0	103	90-110		TOC LCS Std_00033
69	CCB	14:31	Total Organic Carbon - Quad	0.50				U	

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

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job No.: 280-89533-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 348229 Date: 10/25/2016 05:07							
9060A	MB 280-348229/37	Total Organic Carbon - Quad	0.50	U	mg/L	1.0	1

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-89533-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 348229 Date: 10/25/2016 04:34											
						LCS Source: TOC LCS Std_00033					
9060A	LCS 280-348229/35	Total Organic Carbon - Quad	25.6		mg/L	25.0	102	88-112	0	15	

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

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-89533-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 348229 Date: 10/25/2016 04:50											
						LCSD Source: TOC LCS Std_00033					
9060A	LCSD	Total Organic Carbon -	25.6		mg/L	25.0	102	88-112	0	15	
	280-348229/36	Quad									

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-89533-1
SDG Number: _____
Matrix: Water Instrument ID: WC_SHI2
Method: 9060A DL Date: 03/28/2011 11:39

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Total Organic Carbon - Quad		1	0.155

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job Number: 280-89533-1

SDG Number: _____

Matrix: Water

Instrument ID: WC_SHI2

Method: 9060A

XMDL Date: 03/28/2011 11:39

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Organic Carbon - Quad		1	0.155

Lab Name: <u>TestAmerica Denver</u>	Job No.: <u>280-89533-1</u>
SDG No.: _____	
Instrument ID: <u>WC_SHI2</u>	Analysis Method: <u>9060A</u>
Start Date: 10/24/2016 18:30	End Date: 10/25/2016 14:31

Page 314 of 363

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-89533-1
 SDG No.: _____
 Instrument ID: WC_SHI2 Analysis Method: 9060A
 Start Date: 10/24/2016 18:30 End Date: 10/25/2016 14:31

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				T O C Q																									
CCB 280-348229/41	1		06:17	X																									
ZZZZZZ			06:36																										
ZZZZZZ			06:52																										
ZZZZZZ			07:07																										
ZZZZZZ			07:25																										
ZZZZZZ			07:43																										
ZZZZZZ			08:00																										
ZZZZZZ			08:19																										
ZZZZZZ			08:37																										
ZZZZZZ			08:58																										
ZZZZZZ			09:13																										
CCV 280-348229/52	1		09:28	X																									
CCB 280-348229/53	1		09:43	X																									
ZZZZZZ			10:00																										
ZZZZZZ			10:17																										
ZZZZZZ			10:34																										
ZZZZZZ			10:49																										
ZZZZZZ			11:12																										
ZZZZZZ			11:33																										
280-89533-7	1.79	T	11:50	X																									
280-89533-5	1	T	12:05	X																									
280-89533-6	3.33	T	12:23	X																									
280-89533-4	8	T	12:46	X																									
CCV 280-348229/64	1		13:03	X																									
CCB 280-348229/65	1		13:19	X																									
280-89533-1	1	T	13:37	X																									
280-89533-3	1	T	13:56	X																									
CCV 280-348229/68	1		14:11	X																									
CCB 280-348229/69	1		14:31	X																									

Prep Types: _____
 T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-89533-1

SDG No.: _____

Batch Number: 348229 Batch Start Date: 10/24/16 18:30 Batch Analyst: Jewell, Connie CBatch Method: 9060A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TOC ICV Std 00029	TOC LCS Std 00033			
ICV 280-348229/1		9060A		50 mL	1 mL				
CCV 280-348229/28		9060A		200 mL		5 mL			
LCS 280-348229/35		9060A		200 mL		5 mL			
LCS D 280-348229/36		9060A		200 mL		5 mL			
CCV 280-348229/40		9060A		200 mL		5 mL			
CCV 280-348229/52		9060A		200 mL		5 mL			
CCV 280-348229/64		9060A		200 mL		5 mL			
CCV 280-348229/68		9060A		200 mL		5 mL			

Batch Notes	
Sulfuric Acid ID	H2SO4_00161, 0.2%H2SO4_00255
Pipette ID	wc5000cj, wc1000cj

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

9060A

Page 1 of 1

011
 10/24/16
 CS

	Analysis	Sample Name	Dilution	Result	Comment	Date / Time	Vial
1	NPOC	ICV	1.000	LL			1
2	NPOC	ICB	1.000	LL			2
3	NPOC	LCS	1.000	LL			3
4	NPOC	LCSD	1.000	LL			4
5	NPOC	MB	1.000	LL			5
6	NPOC	TIC	1.000	LL			6
7	NPOC	320-22607-n-1	1.000	LL			7
8	NPOC	320-22607-q-3	1.000	LL			8
9	NPOC	320-22607-n-4	1.000	LL			9
10	NPOC	280-89269-b-4	1.000	LL			10
11	NPOC	280-89269-b-6	1.000	LL			11
12	NPOC	280-89269-b-7	1.000	LL			12
13	NPOC	280-89269-d-8	1.000	LL			13
14	NPOC	MS 280-89269-d-8	1.000	LL			14
15	NPOC	MSD 280-89269-d-8	1.000	LL			15
16	NPOC	CCV	1.000	LL			16
17	NPOC	CCB	1.000	LL			17
18	NPOC	280-89269-b-10	1.000	LL			18
19	NPOC	280-89269-b-11	1.000	LL			19
20	NPOC	280-89269-b-12	1.000	LL			20
21	NPOC	280-89323-b-3	1.000	LL			21
22	NPOC	280-89323-b-2	1.000	LL			22
23	NPOC	280-89323-b-4	1.000	LL			23
24	NPOC	280-89323-b-5	1.000	LL			24
25	NPOC	280-89407-c-3	1.000	LL			25
26	NPOC	MS 280-89407-c-3	1.000	LL			26
27	NPOC	MSD 280-89407-c-3	1.000	LL			27
28	NPOC	CCV	1.000	LL			28
29	NPOC	CCB	1.000	LL			29
30	NPOC	280-89584-a-3	1.000	LL			30
31	NPOC	280-89584-a-5	20x-1.000	13			31
32	NPOC	280-89584-a-7	1.000	LL			32
33	NPOC	280-89584-a-11	10x-1.000	LL			33
34	NPOC	280-89584-a-13	1.000	LL	Induced / skin by		34
35	NPOC	LCS	1.000	LL			35
36	NPOC	LCSD	1.000	LL			36
37	NPOC	MB	1.000	LL			37
38	NPOC	TIC	1.000	LL			38
39	NPOC	280-89329-a-3	1.000	LL			39
40	NPOC	CCV	1.000	LL			40
41	NPOC	CCB	1.000	LL			41
42	NPOC	280-89329-a-4	1.000	LL			42
43	NPOC	MS 280-89329-a-4	1.000	LL			43
44	NPOC	MSD 280-89329-a-4	1.000	LL			44
45	NPOC	280-89329-a-5	1.000	LL			45
46	NPOC	280-89329-a-6	1.000	LL			46
47	NPOC	280-89329-b-7	1.000	LL			47
48	NPOC	280-89329-b-8	1.000	LL			48
49	NPOC	280-89329-b-9	1.000	LL			49
50	NPOC	280-89329-e-10	1.000	LL			50
51	NPOC	MS 280-89329-e-10	1.000	LL			51
52	NPOC	CCV	1.000	LL			52
53	NPOC	CCB	1.000	LL			53
54	NPOC	MSD 280-89329-e-1	1.000	LL			54
55	NPOC	280-89329-b-11	1.000	LL			55
56	NPOC	280-89329-b-13	1.000	LL			56
57	NPOC	280-89584-a-14	1.000	LL			57
58	NPOC	280-89584-a-15	10x-1.000	10			58
59	NPOC	280-89415-b-1	1.000	LL			59
60	NPOC	280-89533-a-7	1.000	LL			60
61	NPOC	280-89533-a-5	1.000	LL			61
62	NPOC	280-89533-a-6	1.000	LL			62
63	NPOC	280-89533-a-4	1.000	LL			63
64	NPOC	CCV	1.000	LL			64
65	NPOC	CCB	1.000	LL			65
66	NPOC	280-89533-a-1	1.000	LL			66
67	NPOC	280-89533-a-3	1.000	LL			67

pH 10.24/16

	Analysis	Sample Name	Dilution	~~Results~~	Comment	Date / Time	Vial
68	NPOC	CCV	1.000	<i>u</i>			68
69	NPOC	CCB	1.000	<i>u</i>			69

	Analysis	Sample Name	Dilution	Result	Comment	Date / Time	Vial
1	NPOC	ICV	1.000	NPOC:20.10ppm		10/24/2016 06:38:08 PM	1
2	NPOC	ICB	1.000	NPOC:-0.01487pp		10/24/2016 06:52:42 PM	2
3	NPOC	LCS	1.000	NPOC:24.71ppm		10/24/2016 07:08:42 PM	3
4	NPOC	LCSD	1.000	NPOC:24.64ppm		10/24/2016 07:24:41 PM	4
5	NPOC	MB	1.000	NPOC:0.00987pp		10/24/2016 07:43:27 PM	5
6	NPOC	TIC	1.000	NPOC:0.06440pp		10/24/2016 07:57:55 PM	6
7	NPOC	320-22607-n-1	1.000	NPOC:4.595ppm		10/24/2016 08:14:46 PM	7
8	NPOC	320-22607-q-3	1.000	NPOC:44.77ppm		10/24/2016 08:30:32 PM	8
9	NPOC	320-22607-n-4	1.000	NPOC:1.182ppm		10/24/2016 08:49:18 PM	9
10	NPOC	280-89269-b-4	1.000	NPOC:2.369ppm		10/24/2016 09:05:53 PM	10
11	NPOC	280-89269-b-6	1.000	NPOC:2.602ppm		10/24/2016 09:22:32 PM	11
12	NPOC	280-89269-b-7	1.000	NPOC:1.726ppm		10/24/2016 09:39:11 PM	12
13	NPOC	280-89269-d-8	1.000	NPOC:0.3638ppm		10/24/2016 09:57:56 PM	13
14	NPOC	MS 280-89269-d-8	1.000	NPOC:25.12ppm		10/24/2016 10:13:16 PM	14
15	NPOC	MSD 280-89269-d-8	1.000	NPOC:25.20ppm		10/24/2016 10:28:28 PM	15
16	NPOC	CCV	1.000	NPOC:25.21ppm		10/24/2016 10:46:44 PM	16
17	NPOC	CCB	1.000	NPOC:0.06063pp		10/24/2016 11:01:17 PM	17
18	NPOC	280-89269-b-10	1.000	NPOC:0.7121ppm		10/24/2016 11:15:51 PM	18
19	NPOC	280-89269-b-11	1.000	NPOC:1.780ppm		10/24/2016 11:32:31 PM	19
20	NPOC	280-89269-b-12	1.000	NPOC:1.680ppm		10/24/2016 11:51:16 PM	20
21	NPOC	280-89323-b-3	1.000	NPOC:44.23ppm		10/25/2016 12:07:04 AM	21
22	NPOC	280-89323-b-2	1.000	NPOC:79.53ppm		10/25/2016 12:25:19 AM	22
23	NPOC	280-89323-b-4	1.000	NPOC:187.8ppm		10/25/2016 12:53:58 AM	23
24	NPOC	280-89323-b-5	1.000	NPOC:144.4ppm		10/25/2016 01:18:25 AM	24
25	NPOC	280-89407-c-3	1.000	NPOC:75.70ppm		10/25/2016 01:36:27 AM	25
26	NPOC	MS 280-89407-c-3	1.000	NPOC:96.83ppm		10/25/2016 02:01:10 AM	26
27	NPOC	MSD 280-89407-c-3	1.000	NPOC:94.20ppm		10/25/2016 02:21:20 AM	27
28	NPOC	CCV	1.000	NPOC:25.38ppm		10/25/2016 02:37:01 AM	28
29	NPOC	CCB	1.000	NPOC:0.1074ppm		10/25/2016 02:51:35 AM	29
30	NPOC	280-89584-a-3	1.000	NPOC:18.83ppm		10/25/2016 03:09:09 AM	30
31	NPOC	280-89584-a-5	20.00	NPOC:4255ppm		10/25/2016 03:35:06 AM	31
32	NPOC	280-89584-a-7	1.000	NPOC:29.48ppm		10/25/2016 03:53:43 AM	32
33	NPOC	280-89584-a-11	10.00	NPOC:121.2ppm		10/25/2016 04:10:58 AM	33
34	NPOC	280-89584-a-13	1.000	NPOC:15.14ppm		10/25/2016 04:26:24 AM	34
35	NPOC	LCS	1.000	NPOC:25.60ppm		10/25/2016 04:41:59 AM	35
36	NPOC	LCSD	1.000	NPOC:25.56ppm		10/25/2016 04:57:30 AM	36
37	NPOC	MB	1.000	NPOC:0.1194ppm		10/25/2016 05:14:11 AM	37
38	NPOC	TIC	1.000	NPOC:0.1603ppm		10/25/2016 05:32:57 AM	38
39	NPOC	280-89329-a-3	1.000	NPOC:1.184ppm		10/25/2016 05:51:38 AM	39
40	NPOC	CCV	1.000	NPOC:25.45ppm		10/25/2016 06:07:09 AM	40
41	NPOC	CCB	1.000	NPOC:0.1010ppm		10/25/2016 06:25:57 AM	41
42	NPOC	280-89329-a-4	1.000	NPOC:1.520ppm		10/25/2016 06:44:38 AM	42
43	NPOC	MS 280-89329-a-4	1.000	NPOC:26.84ppm		10/25/2016 06:59:31 AM	43
44	NPOC	MSD 280-89329-a-4	1.000	NPOC:26.75ppm		10/25/2016 07:14:40 AM	44
45	NPOC	280-89329-a-5	1.000	NPOC:1.694ppm		10/25/2016 07:33:27 AM	45
46	NPOC	280-89329-a-6	1.000	NPOC:1.687ppm		10/25/2016 07:52:08 AM	46
47	NPOC	280-89329-b-7	1.000	NPOC:2.793ppm		10/25/2016 08:10:49 AM	47
48	NPOC	280-89329-b-8	1.000	NPOC:1.564ppm		10/25/2016 08:29:30 AM	48
49	NPOC	280-89329-b-9	1.000	NPOC:1.537ppm		10/25/2016 08:46:05 AM	49
50	NPOC	280-89329-e-10	1.000	NPOC:1.447ppm		10/25/2016 09:04:52 AM	50
51	NPOC	MS 280-89329-e-10	1.000	NPOC:26.77ppm		10/25/2016 09:19:59 AM	51
52	NPOC	CCV	1.000	NPOC:25.29ppm		10/25/2016 09:35:31 AM	52
53	NPOC	CCB	1.000	NPOC:0.08157pp		10/25/2016 09:52:12 AM	53
54	NPOC	MSD 280-89329-e-1	1.000	NPOC:26.80ppm		10/25/2016 10:07:31 AM	54
55	NPOC	280-89329-b-11	1.000	NPOC:1.439ppm		10/25/2016 10:26:19 AM	55
56	NPOC	280-89329-b-13	1.000	NPOC:5.313ppm		10/25/2016 10:40:49 AM	56
57	NPOC	280-89584-a-14	1.000	NPOC:14.17ppm		10/25/2016 10:56:08 AM	57
58	NPOC	280-89584-a-15	10.00	NPOC:2225ppm		10/25/2016 11:21:10 AM	58
59	NPOC	280-89415-b-1	1.000	NPOC:1.034ppm		10/25/2016 11:39:57 AM	59
60	NPOC	280-89533-a-7	1.000	NPOC:69.85ppm		10/25/2016 11:57:12 AM	60
61	NPOC	280-89533-a-5	1.000	NPOC:11.94ppm		10/25/2016 12:12:28 PM	61
62	NPOC	280-89533-a-6	1.000	NPOC:112.9ppm		10/25/2016 12:29:49 PM	62
63	NPOC	280-89533-a-4	1.000	NPOC:368.4ppm		10/25/2016 12:55:06 PM	63
64	NPOC	CCV	1.000	NPOC:25.97ppm		10/25/2016 01:10:47 PM	64
65	NPOC	CCB	1.000	NPOC:0.1854ppm		10/25/2016 01:29:35 PM	65
66	NPOC	280-89533-a-1	1.000	NPOC:1.241ppm		10/25/2016 01:48:17 PM	66
67	NPOC	280-89533-a-3	1.000	NPOC:41.46ppm		10/25/2016 02:03:17 PM	67
68	NPOC	CCV	1.000	NPOC:25.85ppm		10/25/2016 02:18:51 PM	68
69	NPOC	CCB	1.000	NPOC:0.1134ppm		10/25/2016 02:37:39 PM	69

Instr.Information

System TOC-VCSH(2)
Detector Combustion
Catalyst Regular Sensitivity
Cell Length long

Sample

Sample Name: ICV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

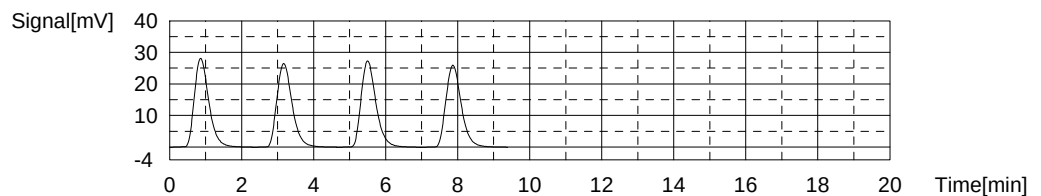
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:20.10ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	79.54	20.20ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 06:30:26 PM
2	79.09	20.09ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 06:32:59 PM
3	79.54	20.20ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 06:35:31 PM
4	78.31	19.89ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 06:38:08 PM

Mean Area 79.12
Mean Conc. 20.10ppm



Sample

Sample Name: ICB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

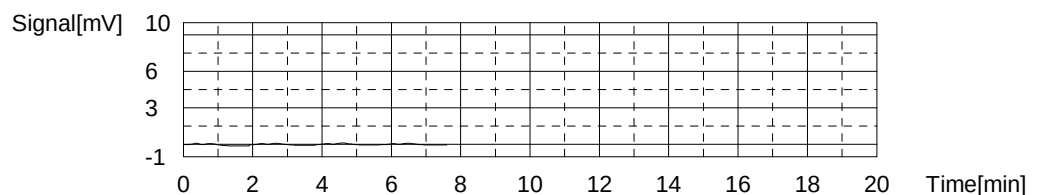
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:-0.01487ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3620	-0.00586ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 06:46:24 PM
2	0.3702	-0.00377ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 06:48:30 PM
3	0.2295	-0.03968ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 06:50:36 PM
4	0.3452	-0.01015ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 06:52:42 PM

Mean Area 0.3267
Mean Conc. -0.01487ppm



Sample

Sample Name: LCS
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

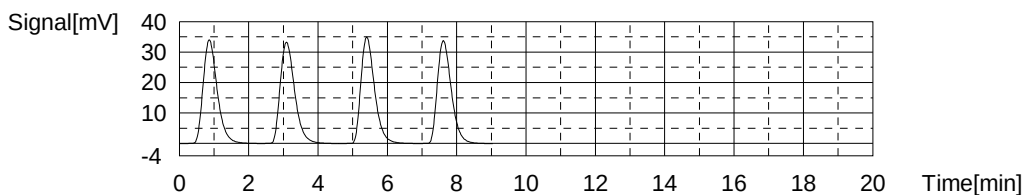
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.71ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	97.38	24.76ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:01:18 PM
2	98.06	24.93ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:03:50 PM
3	97.22	24.72ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:06:14 PM
4	96.11	24.43ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:08:42 PM

Mean Area 97.19
Mean Conc. 24.71ppm



Sample

Sample Name: LCSD
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

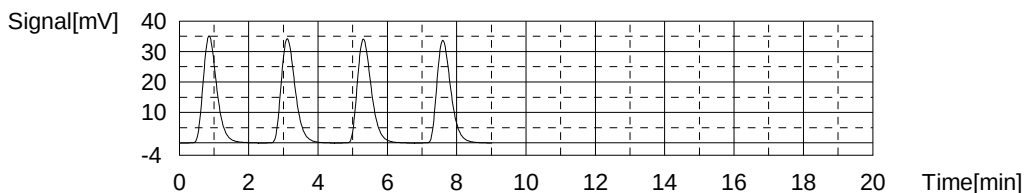
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.64ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	97.45	24.77ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:17:20 PM
2	97.44	24.77ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:19:44 PM
3	97.28	24.73ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:22:14 PM
4	95.58	24.30ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:24:41 PM

Mean Area 96.94
Mean Conc. 24.64ppm



Sample

Sample Name: MB
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

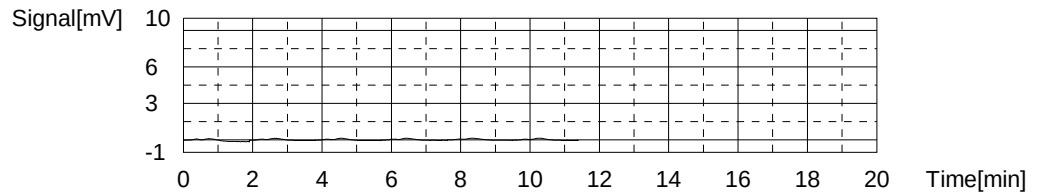
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.00987ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4650	0.02043ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:32:57 PM
2	0.2372	-0.03772ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:35:03 PM
3	0.4859	0.02576ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:37:09 PM
4	0.4850	0.02553ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:39:15 PM
5	0.2055	-0.04581ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:41:21 PM
6	0.2587	-0.03223ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:43:27 PM

Mean Area 0.4237
Mean Conc. 0.00987ppm



Sample

Sample Name: TIC
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

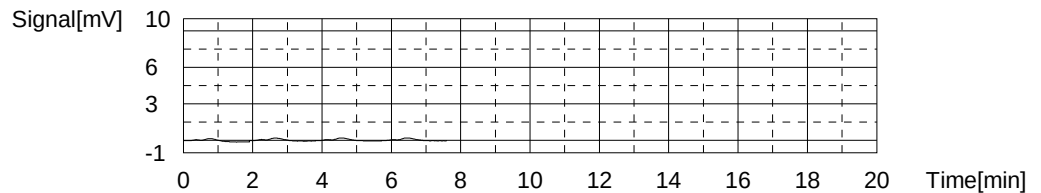
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.06440ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6029	0.05562ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:51:37 PM
2	0.6944	0.07898ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:53:43 PM
3	0.6214	0.06035ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:55:49 PM
4	0.6304	0.06264ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 07:57:55 PM

Mean Area 0.6373
Mean Conc. 0.06440ppm



Sample

Sample Name: 320-22607-n-1
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

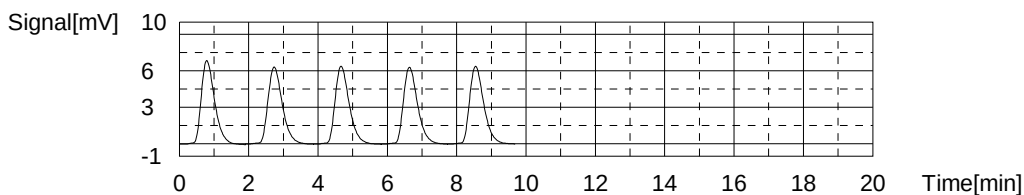
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.595ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.62	4.654ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:06:11 PM
2	18.32	4.578ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:08:20 PM
3	18.30	4.573ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:10:30 PM
4	17.72	4.425ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:12:37 PM
5	18.31	4.575ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:14:46 PM

Mean Area 18.39
Mean Conc. 4.595ppm



Sample

Sample Name: 320-22607-q-3
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

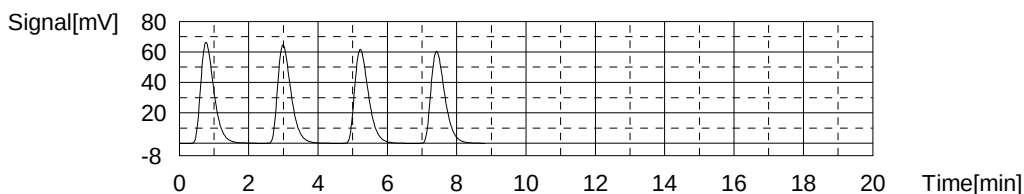
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:44.77ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	179.4	45.69ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:23:20 PM
2	176.9	45.05ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:25:45 PM
3	174.4	44.42ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:28:09 PM
4	172.5	43.93ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:30:32 PM

Mean Area 175.8
Mean Conc. 44.77ppm



Sample

Sample Name: 320-22607-n-4
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

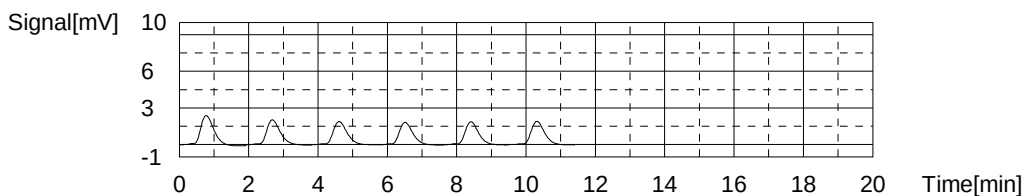
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.182ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.444	1.546ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:38:48 PM
2	5.607	1.333ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:40:54 PM
3	5.305	1.256ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:43:00 PM
4	4.731	1.109ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:45:06 PM
5	5.110	1.206ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:47:12 PM
6	4.911	1.155ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:49:18 PM

Mean Area 5.014
Mean Conc. 1.182ppm



Sample

Sample Name: 280-89269-b-4
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

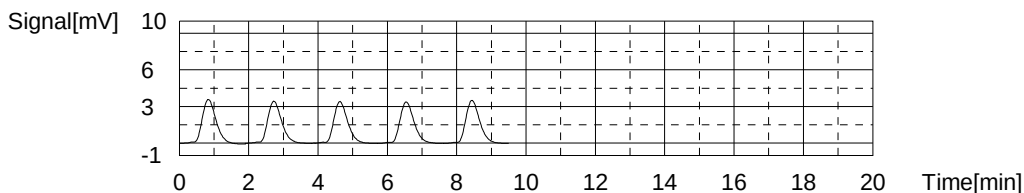
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.369ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.11	2.482ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:57:29 PM
2	9.581	2.347ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 08:59:35 PM
3	9.571	2.345ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:01:41 PM
4	9.670	2.370ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:03:47 PM
5	9.838	2.413ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:05:53 PM

Mean Area 9.665
Mean Conc. 2.369ppm



Sample

Sample Name: 280-89269-b-6
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

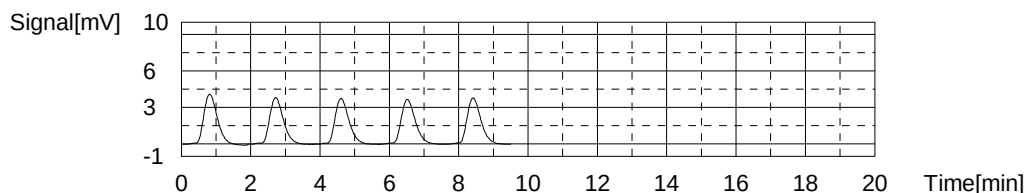
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.602ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.38	2.806ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:14:08 PM
2	10.69	2.630ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:16:14 PM
3	10.58	2.602ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:18:20 PM
4	10.47	2.574ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:20:26 PM
5	10.58	2.602ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:22:32 PM

Mean Area 10.58
Mean Conc. 2.602ppm



Sample

Sample Name: 280-89269-b-7
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

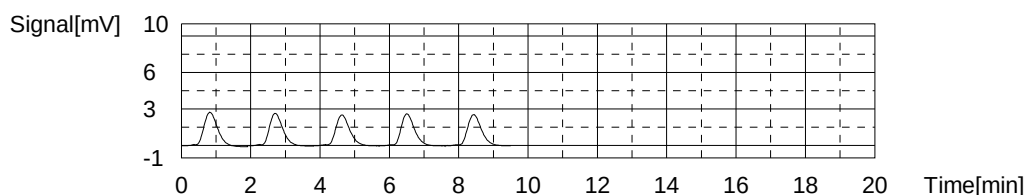
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.726ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.651	1.855ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:30:47 PM
2	7.211	1.742ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:32:53 PM
3	7.114	1.718ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:34:59 PM
4	7.068	1.706ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:37:05 PM
5	7.190	1.737ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:39:11 PM

Mean Area 7.146
Mean Conc. 1.726ppm



Sample

Sample Name: 280-89269-d-8
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

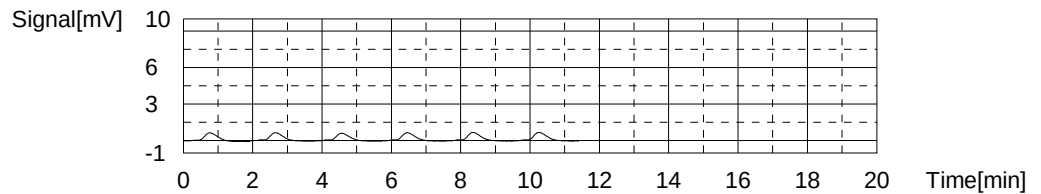
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3638ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.599	0.3099ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:47:26 PM
2	1.459	0.2741ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:49:32 PM
3	1.764	0.3520ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:51:38 PM
4	1.800	0.3612ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:53:44 PM
5	1.825	0.3676ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:55:50 PM
6	1.853	0.3747ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 09:57:56 PM

Mean Area 1.811
Mean Conc. 0.3638ppm



Sample

Sample Name: MS 280-89269-d-8
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

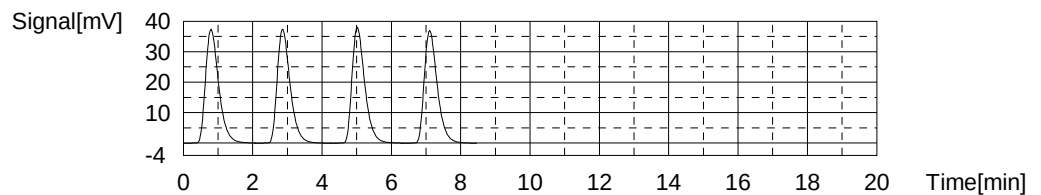
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:25.12ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.80	25.37ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:06:16 PM
2	98.88	25.14ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:08:38 PM
3	98.65	25.08ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:10:55 PM
4	97.82	24.87ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:13:16 PM

Mean Area 98.79
Mean Conc. 25.12ppm



Sample

Sample Name: MSD 280-89269-d-8
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

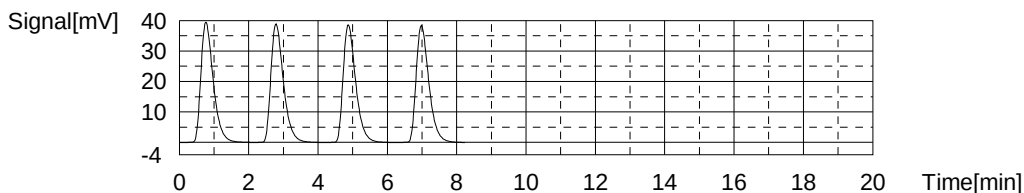
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:25.20ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.90	25.14ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:21:39 PM
2	99.71	25.35ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:23:56 PM
3	98.51	25.05ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:26:14 PM
4	99.38	25.27ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:28:28 PM

Mean Area 99.13
Mean Conc. 25.20ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

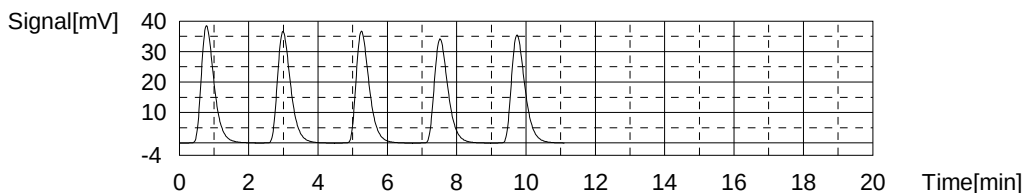
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:25.21ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	100.6	25.58ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:37:01 PM
2	98.89	25.14ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:39:30 PM
3	98.59	25.07ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:41:57 PM
4	95.70	24.33ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:44:23 PM
5	98.53	25.05ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:46:44 PM

Mean Area 99.15
Mean Conc. 25.21ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

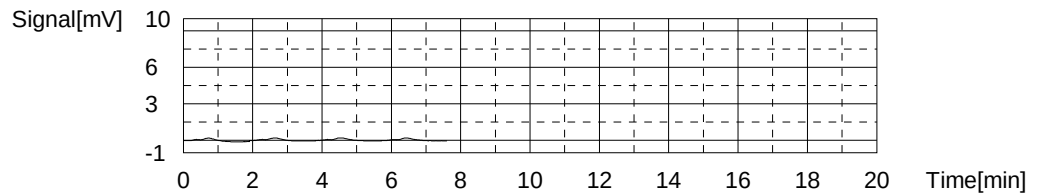
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.06063ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6580	0.06969ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:54:59 PM
2	0.6272	0.06183ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:57:05 PM
3	0.6197	0.05991ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 10:59:11 PM
4	0.5852	0.05111ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:01:17 PM

Mean Area 0.6225
Mean Conc. 0.06063ppm



Sample

Sample Name: 280-89269-b-10
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

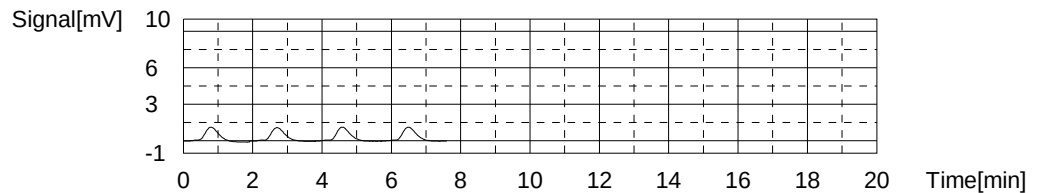
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.7121ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.223	0.7244ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:09:33 PM
2	3.116	0.6971ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:11:39 PM
3	3.203	0.7193ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:13:45 PM
4	3.157	0.7075ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:15:51 PM

Mean Area 3.175
Mean Conc. 0.7121ppm



Sample

Sample Name: 280-89269-b-11
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

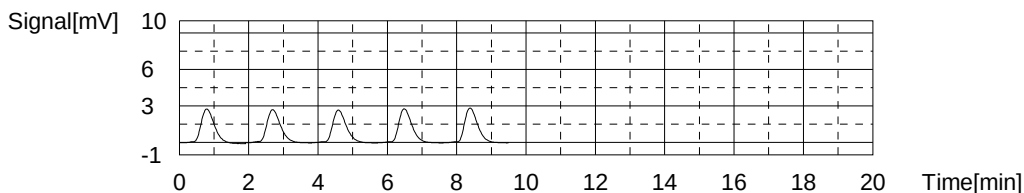
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.780ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.377	1.785ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:24:07 PM
2	7.497	1.815ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:26:13 PM
3	7.347	1.777ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:28:19 PM
4	7.099	1.714ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:30:25 PM
5	7.215	1.743ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:32:31 PM

Mean Area 7.359
Mean Conc. 1.780ppm



Sample

Sample Name: 280-89269-b-12
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

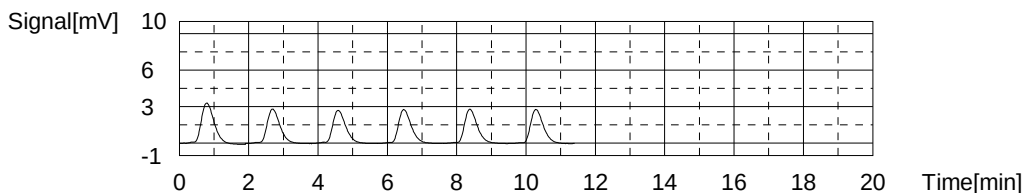
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.680ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.691	2.120ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:40:46 PM
2	7.293	1.763ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:42:52 PM
3	7.140	1.724ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:44:58 PM
4	6.832	1.646ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:47:04 PM
5	6.944	1.674ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:49:10 PM
6	6.954	1.677ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:51:16 PM

Mean Area 6.968
Mean Conc. 1.680ppm



Sample

Sample Name: 280-89323-b-3
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:44.23ppm

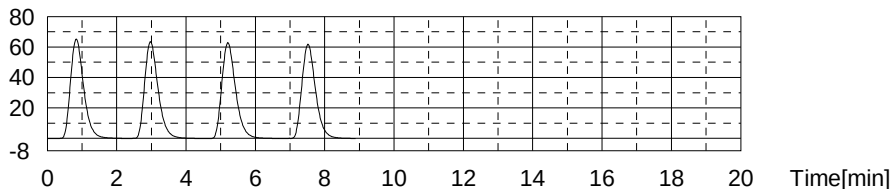
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	173.5	44.19ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/24/2016 11:59:40 PM
2	173.5	44.19ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:02:06 AM
3	175.9	44.80ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:04:37 AM
4	171.8	43.75ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:07:04 AM

Mean Area 173.7
Mean Conc. 44.23ppm

Signal[mV]



Sample

Sample Name: 280-89323-b-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:79.53ppm

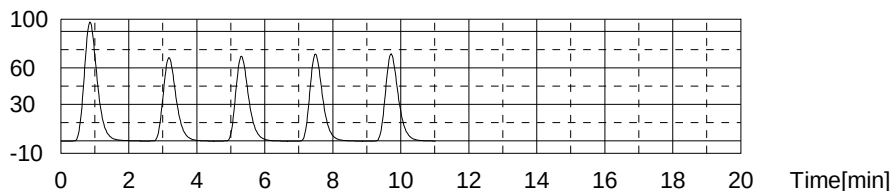
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	260.7	66.44ppm	50uL	1	R	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:15:47 AM
2	184.2	78.26ppm	30uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:18:09 AM
3	186.5	79.24ppm	30uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:20:32 AM
4	187.3	79.58ppm	30uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:22:58 AM
5	190.7	81.02ppm	30uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:25:19 AM

Mean Area 187.2
Mean Conc. 79.53ppm

Signal[mV]



Sample

Sample Name: 280-89323-b-4
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

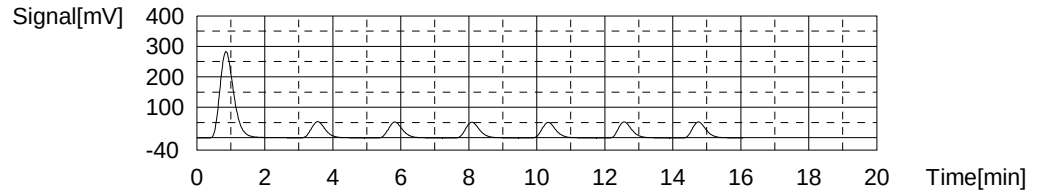
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:187.8ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	804.7	205.3ppm	50uL	1	R	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:34:22 AM
2	154.8	197.1ppm	50uL	5	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:41:49 AM
3	152.7	194.4ppm	50uL	5	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:44:19 AM
4	149.5	190.3ppm	50uL	5		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:46:46 AM
5	146.1	186.0ppm	50uL	5		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:49:14 AM
6	146.4	186.3ppm	50uL	5		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:51:36 AM
7	148.2	188.6ppm	50uL	5		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:53:58 AM

Mean Area 147.6
Mean Conc. 187.8ppm



Sample

Sample Name: 280-89323-b-5
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

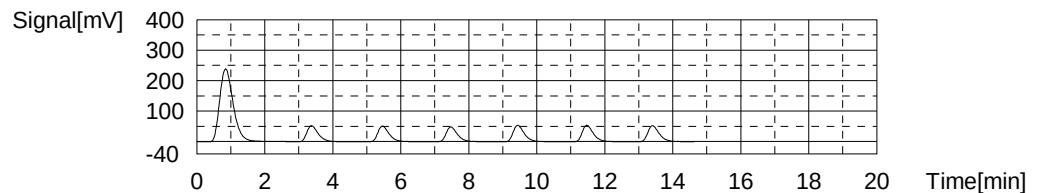
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:144.4ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	666.5	170.0ppm	50uL	1	R	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:02:52 AM
2	124.9	144.8ppm	11uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:05:09 AM
3	119.6	138.7ppm	11uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:07:21 AM
4	112.9	130.9ppm	11uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:09:31 AM
5	124.2	144.0ppm	11uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:11:45 AM
6	124.6	144.5ppm	11uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:13:53 AM
7	124.4	144.2ppm	11uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:18:25 AM

Mean Area 124.5
Mean Conc. 144.4ppm



Sample

Sample Name: 280-89407-c-3
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

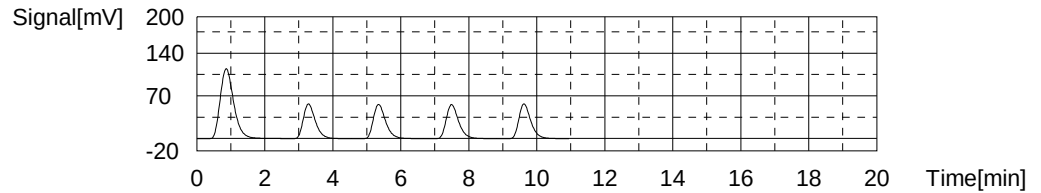
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:75.70ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	321.1	81.86ppm	50uL	1	R	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:27:10 AM
2	142.5	75.68ppm	24uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:29:26 AM
3	143.0	75.94ppm	24uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:31:46 AM
4	143.5	76.21ppm	24uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:34:06 AM
5	141.2	74.98ppm	24uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:36:27 AM

Mean Area 142.6
Mean Conc. 75.70ppm



Sample

Sample Name: MS 280-89407-c-3
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

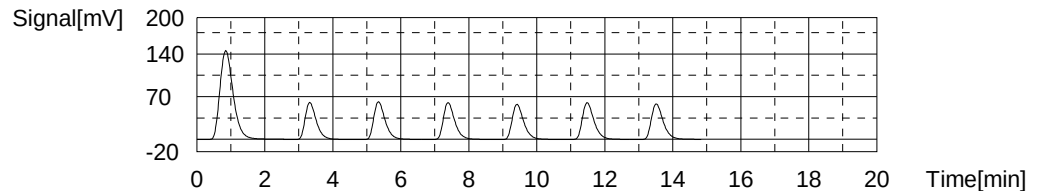
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:96.83ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	399.7	101.9ppm	50uL	1	R	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:45:21 AM
2	140.1	94.00ppm	19uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:47:34 AM
3	145.7	97.77ppm	19uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:49:49 AM
4	141.7	95.08ppm	19uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:52:02 AM
5	138.0	92.59ppm	19uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:54:18 AM
6	146.4	98.24ppm	19uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:56:32 AM
7	143.4	96.22ppm	19uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:01:10 AM

Mean Area 144.3
Mean Conc. 96.83ppm



Sample

Sample Name: MSD 280-89407-c-3
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

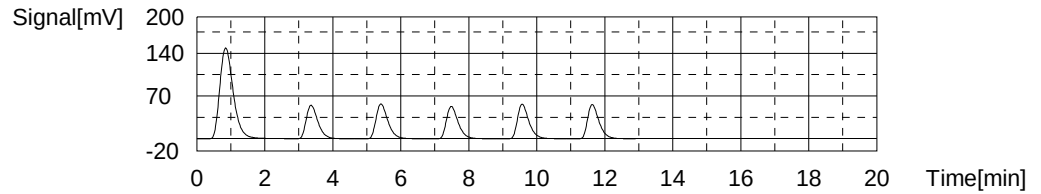
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:94.20ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	414.4	105.7ppm	50uL	1	R	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:10:01 AM
2	134.0	94.91ppm	18uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:12:16 AM
3	141.0	99.87ppm	18uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:14:32 AM
4	129.6	91.79ppm	18uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:16:50 AM
5	135.0	95.62ppm	18uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:19:06 AM
6	133.4	94.48ppm	18uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:21:20 AM

Mean Area 133.0
Mean Conc. 94.20ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

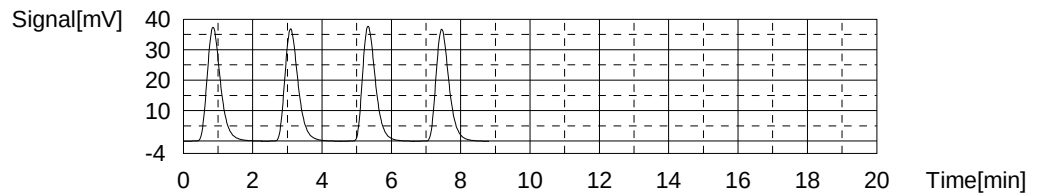
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:25.38ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	101.7	25.86ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:29:51 AM
2	99.95	25.41ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:32:19 AM
3	99.42	25.28ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:34:37 AM
4	98.15	24.95ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:37:01 AM

Mean Area 99.81
Mean Conc. 25.38ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

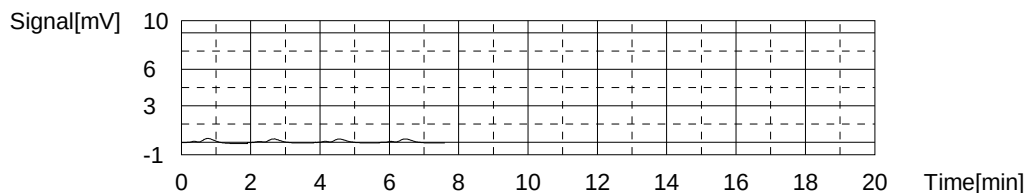
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1074ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9330	0.1399ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:45:17 AM
2	0.7899	0.1034ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:47:23 AM
3	0.7471	0.09243ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:49:29 AM
4	0.7531	0.09396ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:51:35 AM

Mean Area 0.8058
Mean Conc. 0.1074ppm



Sample

Sample Name: 280-89584-a-3
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

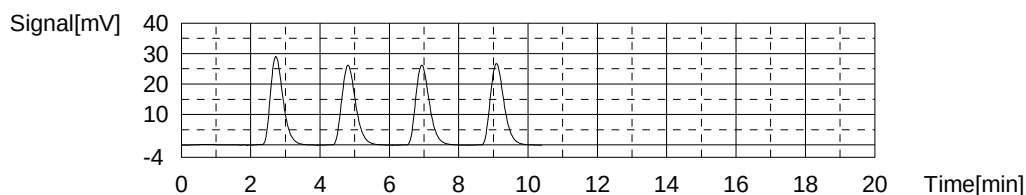
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:18.83ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7385	0.09023ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:59:51 AM
2	74.78	18.99ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:02:05 AM
3	74.00	18.79ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:04:26 AM
4	73.22	18.59ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:06:47 AM
5	74.64	18.95ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:09:09 AM

Mean Area 74.16
Mean Conc. 18.83ppm



Sample

Sample Name: 280-89584-a-5
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

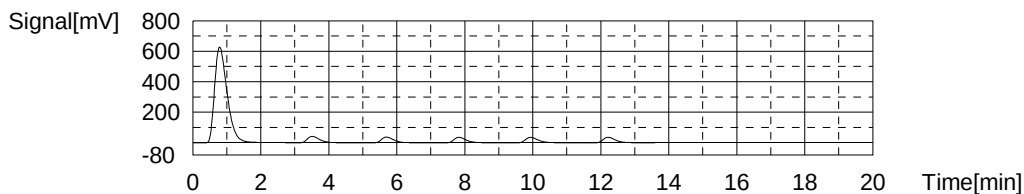
Type	Anal.	Dil.	Result
Unknown	NPOC	20.00	NPOC:4255ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1632	8329ppm	50uL	1	R	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:18:14 AM
2	108.3	4958ppm	50uL	9	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:25:37 AM
3	94.79	4337ppm	50uL	9		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:27:57 AM
4	91.36	4180ppm	50uL	9		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:30:15 AM
5	93.53	4279ppm	50uL	9		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:32:44 AM
6	92.29	4222ppm	50uL	9		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:35:06 AM

Mean Area 92.99
Mean Conc. 4255ppm



Sample

Sample Name: 280-89584-a-7
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

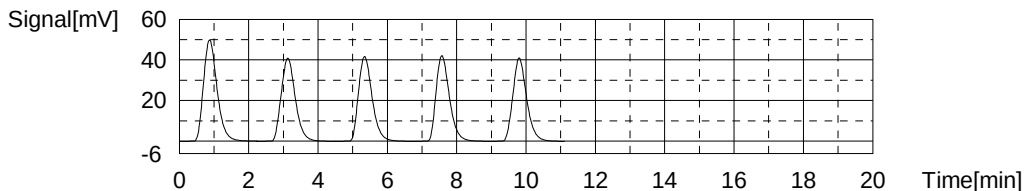
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:29.48ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	137.5	35.00ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:44:02 AM
2	117.4	29.87ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:46:29 AM
3	116.1	29.53ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:48:56 AM
4	114.8	29.20ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:51:18 AM
5	115.3	29.33ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 03:53:43 AM

Mean Area 115.9
Mean Conc. 29.48ppm



Sample

Sample Name: 280-89584-a-11
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

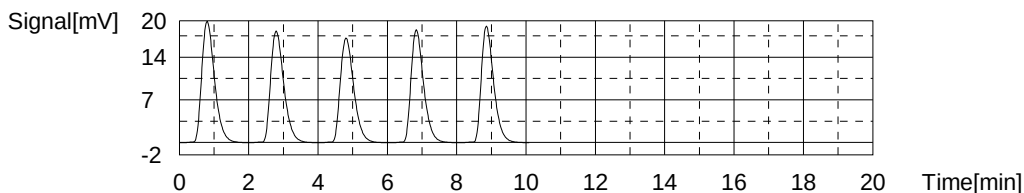
Type	Anal.	Dil.	Result
Unknown	NPOC	10.00	NPOC:121.2ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	51.94	131.6ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:02:04 AM
2	49.09	124.3ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:04:16 AM
3	47.09	119.2ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:06:31 AM
4	47.42	120.1ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:08:45 AM
5	47.88	121.2ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:10:58 AM

Mean Area 47.87
Mean Conc. 121.2ppm



Sample

Sample Name: 280-89584-a-13
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

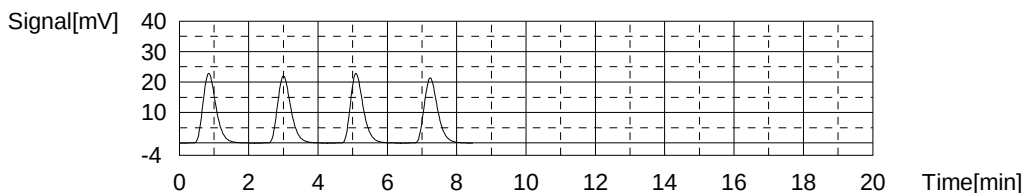
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:15.14ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	60.64	15.38ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:19:29 AM
2	59.71	15.14ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:21:48 AM
3	59.61	15.12ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:24:06 AM
4	58.80	14.91ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:26:24 AM

Mean Area 59.69
Mean Conc. 15.14ppm



Sample

Sample Name: LCS
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

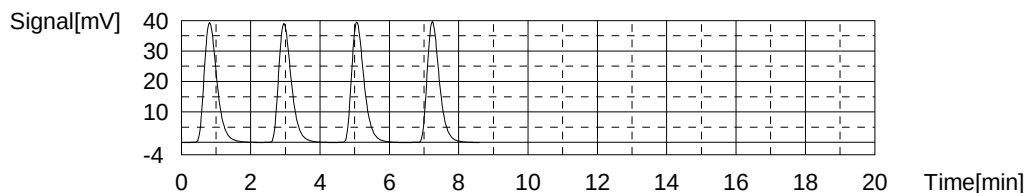
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:25.60ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	102.1	25.96ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:34:56 AM
2	101.3	25.76ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:37:15 AM
3	100.5	25.55ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:39:37 AM
4	98.80	25.12ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:41:59 AM

Mean Area 100.7
Mean Conc. 25.60ppm



Sample

Sample Name: LCSD
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

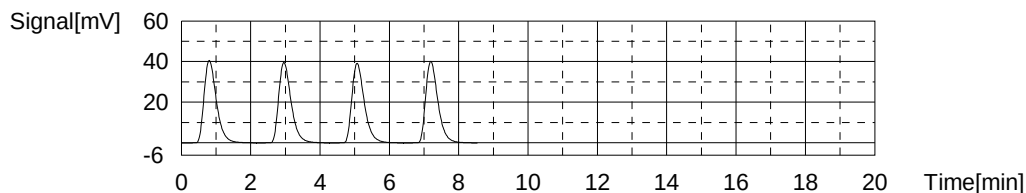
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:25.56ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	102.0	25.94ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:50:31 AM
2	100.5	25.55ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:52:50 AM
3	99.76	25.36ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:55:10 AM
4	99.84	25.38ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 04:57:30 AM

Mean Area 100.5
Mean Conc. 25.56ppm



Sample

Sample Name: MB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

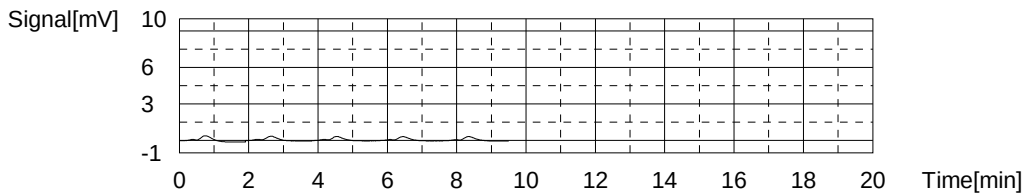
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1194ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.082	0.1779ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:05:47 AM
2	0.9220	0.1371ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:07:53 AM
3	0.8270	0.1128ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:09:59 AM
4	0.8108	0.1087ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:12:05 AM
5	0.8520	0.1192ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:14:11 AM

Mean Area 0.8530
Mean Conc. 0.1194ppm



Sample

Sample Name: TIC
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

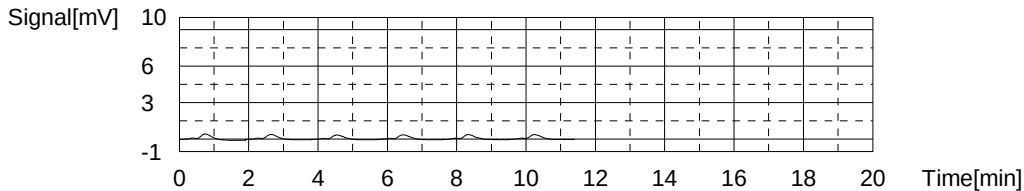
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1603ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.132	0.1907ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:22:27 AM
2	0.9945	0.1556ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:24:33 AM
3	0.6893	0.07768ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:26:39 AM
4	0.7162	0.08454ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:28:45 AM
5	0.9662	0.1484ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:30:51 AM
6	0.9598	0.1467ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:32:57 AM

Mean Area 1.013
Mean Conc. 0.1603ppm



Sample

Sample Name: 280-89329-a-3
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

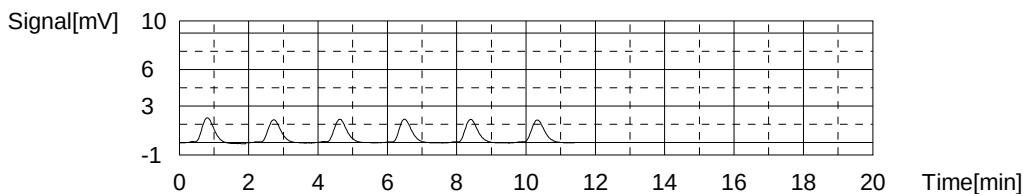
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.184ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.229	1.236ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:41:08 AM
2	4.606	1.077ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:43:14 AM
3	4.998	1.177ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:45:20 AM
4	4.559	1.065ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:47:26 AM
5	4.932	1.161ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:49:32 AM
6	4.937	1.162ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 05:51:38 AM

Mean Area 5.024
Mean Conc. 1.184ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

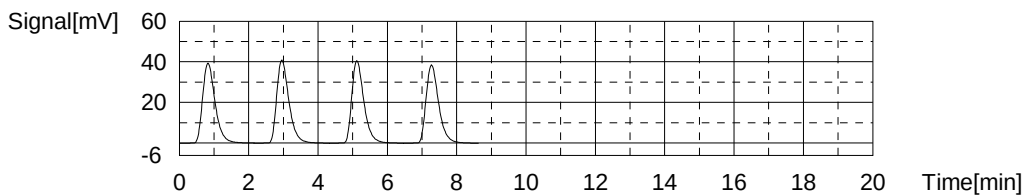
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:25.45ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.87	25.39ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:00:04 AM
2	101.8	25.88ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:02:26 AM
3	100.0	25.43ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:04:46 AM
4	98.68	25.09ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:07:09 AM

Mean Area 100.1
Mean Conc. 25.45ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

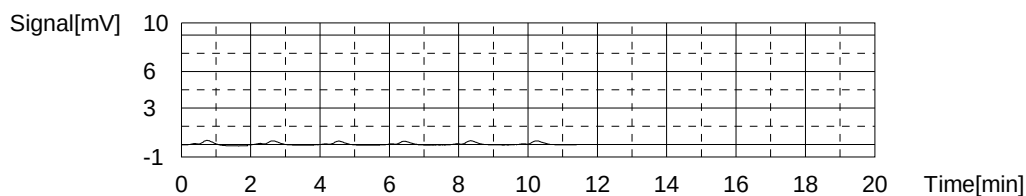
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1010ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9696	0.1492ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:15:27 AM
2	0.8759	0.1253ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:17:33 AM
3	0.5327	0.03771ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:19:39 AM
4	0.7061	0.08196ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:21:45 AM
5	0.7692	0.09807ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:23:51 AM
6	0.7708	0.09848ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:25:57 AM

Mean Area 0.7805
Mean Conc. 0.1010ppm



Sample

Sample Name: 280-89329-a-4
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

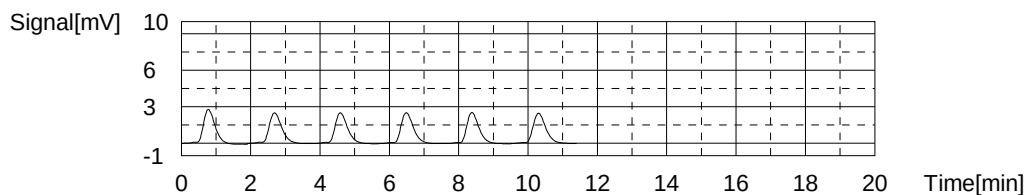
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.520ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.628	1.593ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:34:08 AM
2	6.392	1.533ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:36:14 AM
3	6.359	1.525ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:38:20 AM
4	6.019	1.438ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:40:26 AM
5	6.245	1.496ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:42:32 AM
6	6.366	1.527ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:44:38 AM

Mean Area 6.341
Mean Conc. 1.520ppm



Sample

Sample Name: MS 280-89329-a-4
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

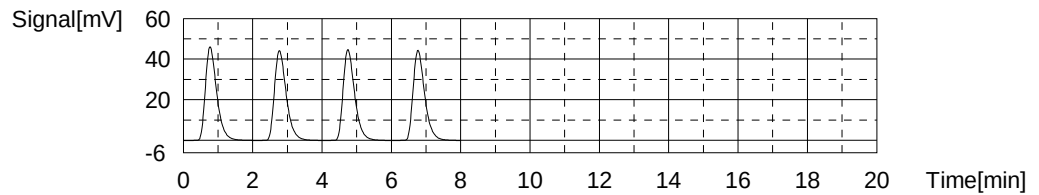
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:26.84ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	106.1	26.98ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:52:54 AM
2	106.3	27.03ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:55:05 AM
3	105.1	26.73ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:57:18 AM
4	104.7	26.63ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 06:59:31 AM

Mean Area 105.6
Mean Conc. 26.84ppm



Sample

Sample Name: MSD 280-89329-a-4
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

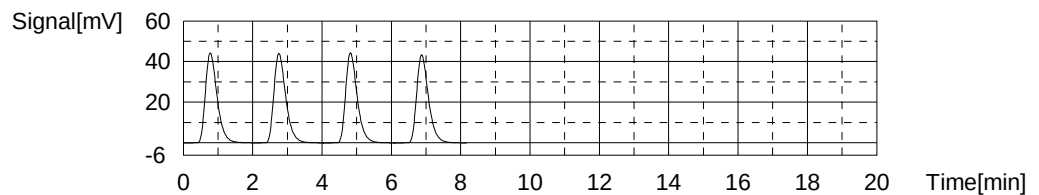
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:26.75ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.2	26.75ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:07:52 AM
2	106.7	27.14ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:10:08 AM
3	104.4	26.55ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:12:23 AM
4	104.5	26.57ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:14:40 AM

Mean Area 105.2
Mean Conc. 26.75ppm



Sample

Sample Name: 280-89329-a-5
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

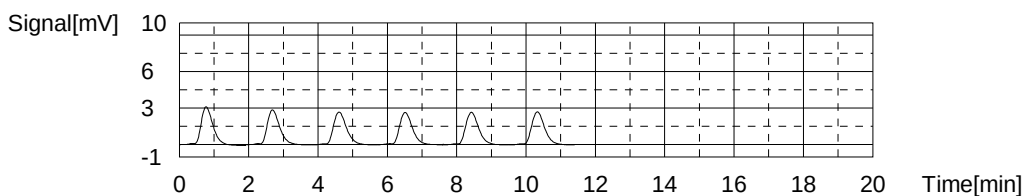
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.694ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.485	1.812ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:22:57 AM
2	7.142	1.725ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:25:03 AM
3	6.850	1.650ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:27:09 AM
4	6.811	1.640ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:29:15 AM
5	6.964	1.679ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:31:21 AM
6	7.126	1.721ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:33:27 AM

Mean Area 7.021
Mean Conc. 1.694ppm



Sample

Sample Name: 280-89329-a-6
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

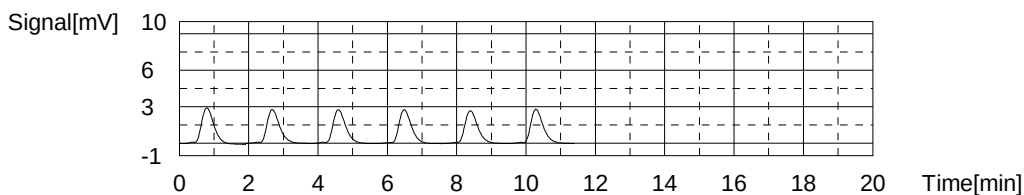
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.687ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.372	1.783ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:41:38 AM
2	7.015	1.692ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:43:44 AM
3	7.001	1.689ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:45:50 AM
4	6.958	1.678ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:47:56 AM
5	6.632	1.594ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:50:02 AM
6	7.005	1.690ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 07:52:08 AM

Mean Area 6.995
Mean Conc. 1.687ppm



Sample

Sample Name: 280-89329-b-7
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

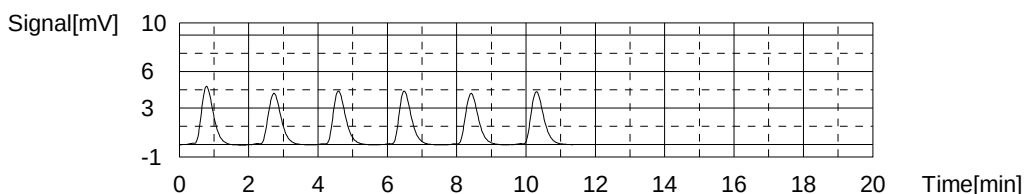
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.793ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.70	2.888ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:00:19 AM
2	11.07	2.727ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:02:25 AM
3	11.20	2.760ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:04:31 AM
4	10.51	2.584ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:06:37 AM
5	10.65	2.620ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:08:43 AM
6	11.34	2.796ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:10:49 AM

Mean Area 11.33
Mean Conc. 2.793ppm



Sample

Sample Name: 280-89329-b-8
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

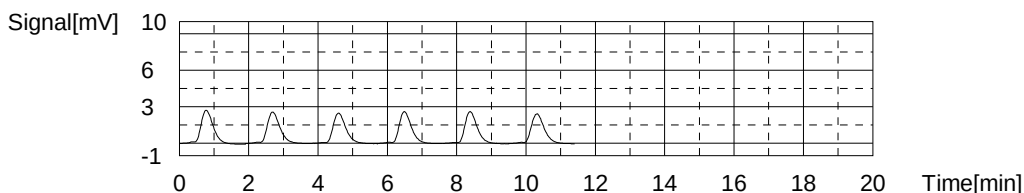
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.564ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.695	1.611ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:19:00 AM
2	6.597	1.586ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:21:06 AM
3	6.357	1.524ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:23:12 AM
4	6.012	1.436ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:25:18 AM
5	6.146	1.470ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:27:24 AM
6	6.397	1.535ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:29:30 AM

Mean Area 6.511
Mean Conc. 1.564ppm



Sample

Sample Name: 280-89329-b-9
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

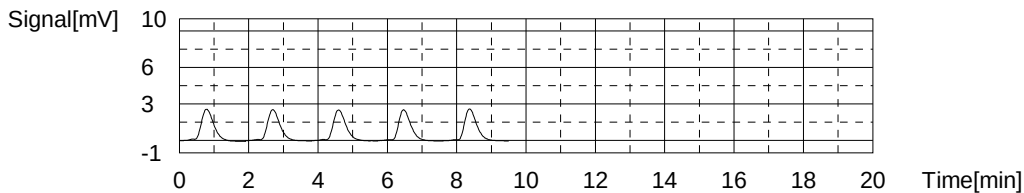
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.537ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.565	1.577ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:37:41 AM
2	6.351	1.523ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:39:47 AM
3	6.399	1.535ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:41:53 AM
4	5.768	1.374ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:43:59 AM
5	6.306	1.511ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:46:05 AM

Mean Area 6.405
Mean Conc. 1.537ppm



Sample

Sample Name: 280-89329-e-10
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

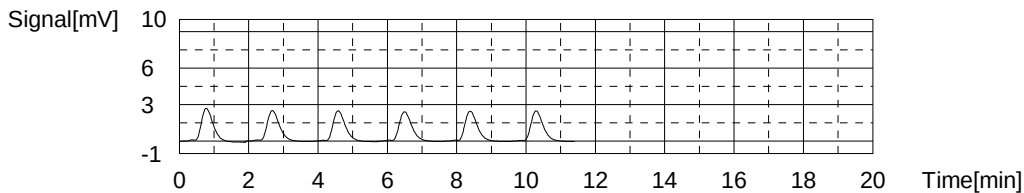
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.447ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.554	1.575ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:54:22 AM
2	6.330	1.517ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:56:28 AM
3	5.936	1.417ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 08:58:34 AM
4	6.184	1.480ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:00:40 AM
5	6.183	1.480ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:02:46 AM
6	5.910	1.410ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:04:52 AM

Mean Area 6.053
Mean Conc. 1.447ppm



Sample

Sample Name: MS 280-89329-e-10
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

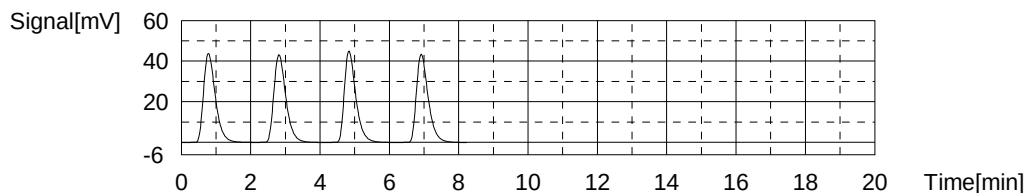
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:26.77ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.4	26.80ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:13:10 AM
2	106.0	26.96ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:15:26 AM
3	105.0	26.70ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:17:42 AM
4	104.7	26.63ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:19:59 AM

Mean Area 105.3
Mean Conc. 26.77ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

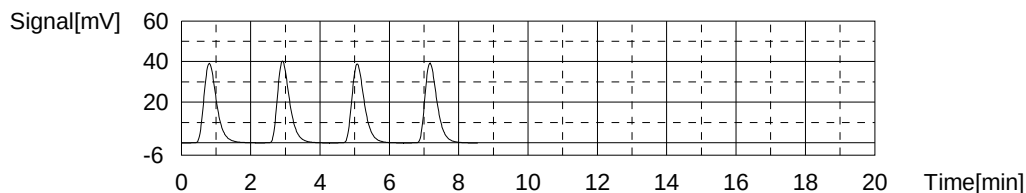
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:25.29ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	100.7	25.60ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:28:30 AM
2	100.8	25.63ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:30:50 AM
3	98.88	25.14ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:33:09 AM
4	97.46	24.78ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:35:31 AM

Mean Area 99.46
Mean Conc. 25.29ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

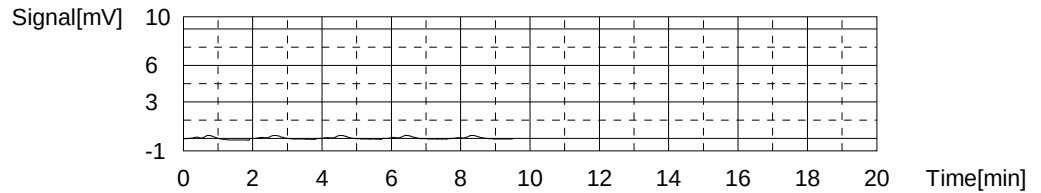
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.08157ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7608	0.09593ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:43:48 AM
2	0.7256	0.08694ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:45:54 AM
3	0.4595	0.01902ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:48:00 AM
4	0.6708	0.07295ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:50:06 AM
5	0.6610	0.07045ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 09:52:12 AM

Mean Area 0.7046
Mean Conc. 0.08157ppm



Sample

Sample Name: MSD 280-89329-e-10
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

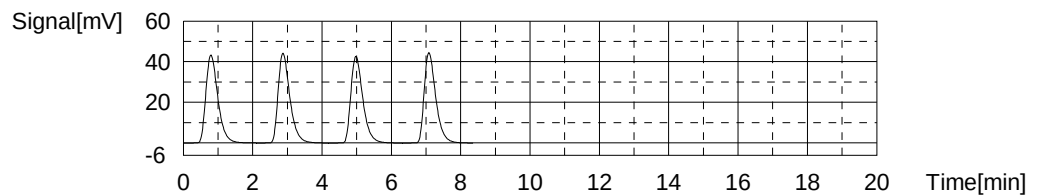
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:26.80ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.7	26.88ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:00:40 AM
2	106.5	27.08ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:02:57 AM
3	104.4	26.55ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:05:17 AM
4	104.9	26.68ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:07:31 AM

Mean Area 105.4
Mean Conc. 26.80ppm



Sample

Sample Name: 280-89329-b-11
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

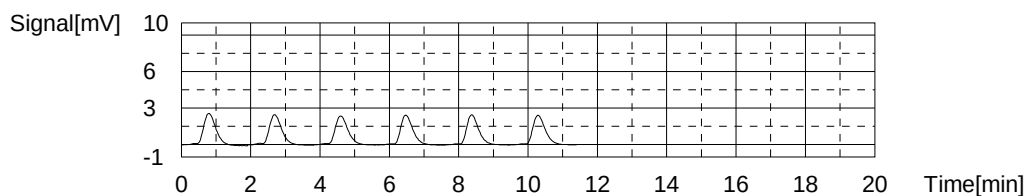
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.439ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.474	1.554ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:15:49 AM
2	6.244	1.495ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:17:55 AM
3	6.045	1.445ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:20:01 AM
4	6.024	1.439ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:22:07 AM
5	5.599	1.331ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:24:13 AM
6	5.782	1.378ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:26:19 AM

Mean Area 6.024
Mean Conc. 1.439ppm



Sample

Sample Name: 280-89329-b-13
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

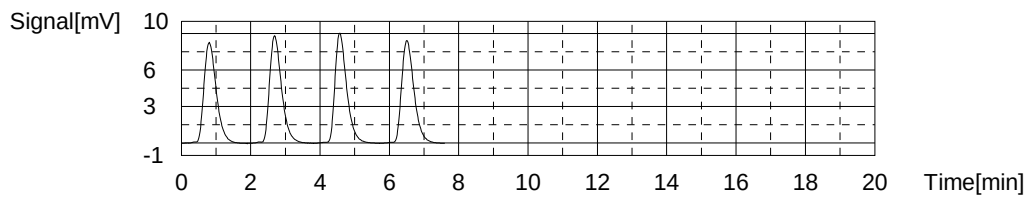
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:5.313ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.64	5.170ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:34:31 AM
2	21.60	5.415ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:36:37 AM
3	21.43	5.371ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:38:43 AM
4	21.13	5.295ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:40:49 AM

Mean Area 21.20
Mean Conc. 5.313ppm



Sample

Sample Name: 280-89584-a-14
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

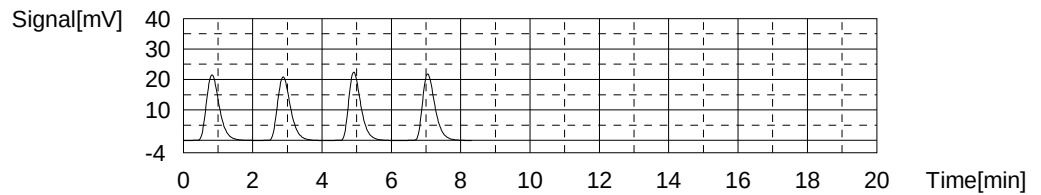
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:14.17ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	56.59	14.35ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:49:16 AM
2	55.74	14.13ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:51:32 AM
3	55.55	14.08ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:53:52 AM
4	55.68	14.11ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 10:56:08 AM

Mean Area 55.89
Mean Conc. 14.17ppm



Sample

Sample Name: 280-89584-a-15
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

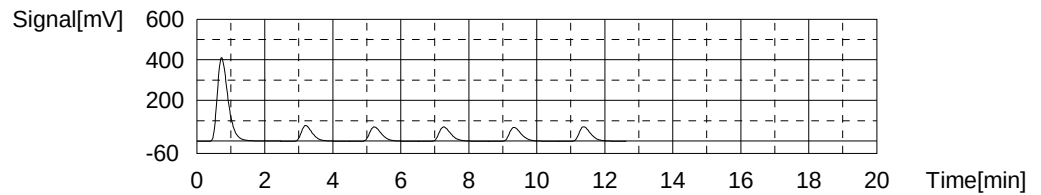
Type	Anal.	Dil.	Result
Unknown	NPOC	10.00	NPOC:2225ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	919.1	2345ppm	50uL	1	R	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:05:00 AM
2	178.4	2272ppm	50uL	5		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:12:12 AM
3	174.1	2217ppm	50uL	5		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:14:27 AM
4	173.5	2209ppm	50uL	5		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:16:43 AM
5	168.3	2143ppm	50uL	5	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:18:58 AM
6	173.0	2203ppm	50uL	5		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:21:10 AM

Mean Area 174.8
Mean Conc. 2225ppm



Sample

Sample Name: 280-89415-b-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

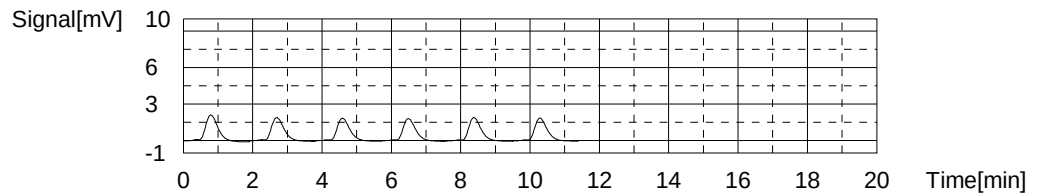
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.034ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.369	1.272ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:29:27 AM
2	4.830	1.135ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:31:33 AM
3	4.387	1.021ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:33:39 AM
4	4.296	0.9982ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:35:45 AM
5	4.402	1.025ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:37:51 AM
6	4.656	1.090ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:39:57 AM

Mean Area 4.435
Mean Conc. 1.034ppm



Sample

Sample Name: 280-89533-a-7
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

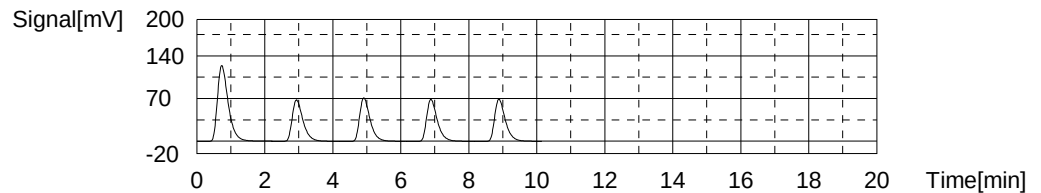
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:69.85ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	278.1	70.88ppm	50uL	1	R	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:48:27 AM
2	153.0	69.64ppm	28uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:50:38 AM
3	154.8	70.46ppm	28uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:52:48 AM
4	152.2	69.27ppm	28uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:55:00 AM
5	153.9	70.05ppm	28uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 11:57:12 AM

Mean Area 153.5
Mean Conc. 69.85ppm



Sample

Sample Name: 280-89533-a-5
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

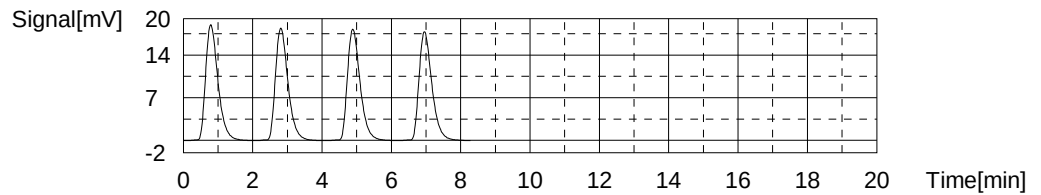
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:11.94ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	47.74	12.09ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:05:35 PM
2	47.25	11.96ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:07:52 PM
3	46.86	11.86ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:10:08 PM
4	46.77	11.84ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:12:28 PM

Mean Area 47.16
Mean Conc. 11.94ppm



Sample

Sample Name: 280-89533-a-6
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

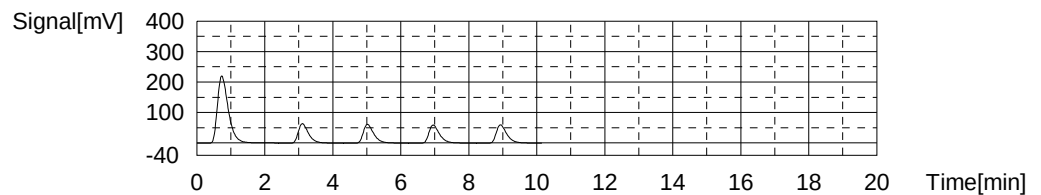
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:112.9ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	494.4	126.1ppm	50uL	1	R	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:21:15 PM
2	135.9	115.5ppm	15uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:23:22 PM
3	133.7	113.7ppm	15uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:25:30 PM
4	130.4	110.8ppm	15uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:27:41 PM
5	131.2	111.5ppm	15uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:29:49 PM

Mean Area 132.8
Mean Conc. 112.9ppm



Sample

Sample Name: 280-89533-a-4
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

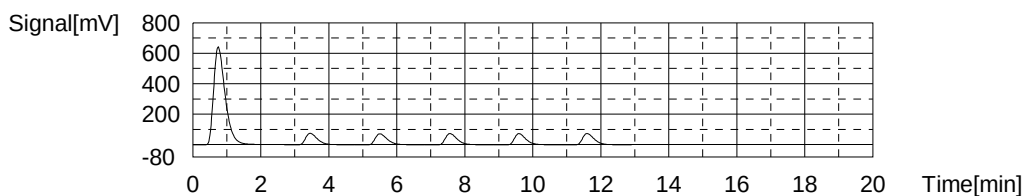
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:368.4ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1530	390.4ppm	50uL	1	R	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:38:54 PM
2	184.3	375.5ppm	50uL	8		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:46:09 PM
3	180.6	368.0ppm	50uL	8		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:48:25 PM
4	179.5	365.7ppm	50uL	8		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:50:39 PM
5	173.8	354.1ppm	50uL	8	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:52:51 PM
6	178.9	364.5ppm	50uL	8		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 12:55:06 PM

Mean Area 180.8
Mean Conc. 368.4ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

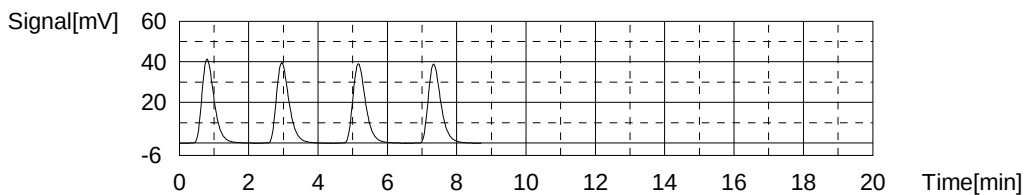
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:25.97ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	103.4	26.29ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:03:38 PM
2	102.9	26.17ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:06:01 PM
3	101.6	25.83ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:08:24 PM
4	100.6	25.58ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:10:47 PM

Mean Area 102.1
Mean Conc. 25.97ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

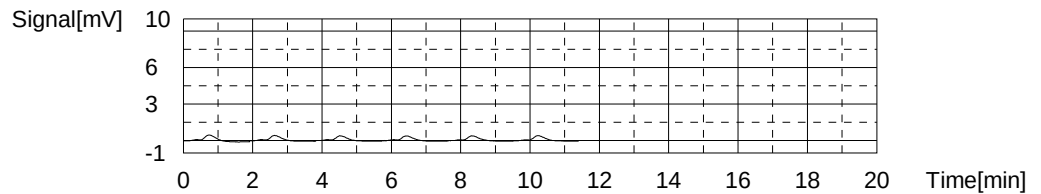
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1854ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.258	0.2228ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:19:05 PM
2	1.119	0.1874ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:21:11 PM
3	1.017	0.1613ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:23:17 PM
4	1.052	0.1703ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:25:23 PM
5	0.7317	0.08850ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:27:29 PM
6	0.7893	0.1032ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:29:35 PM

Mean Area 1.111
Mean Conc. 0.1854ppm



Sample

Sample Name: 280-89533-a-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

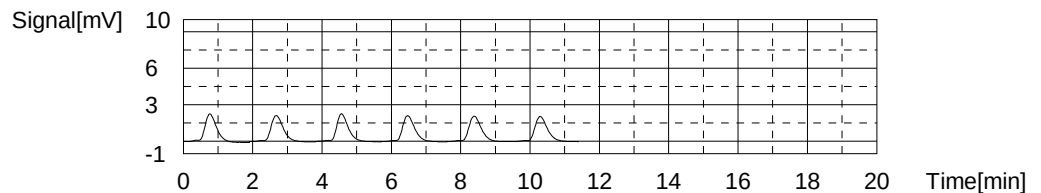
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.241ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.380	1.275ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:37:47 PM
2	5.239	1.239ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:39:53 PM
3	5.225	1.235ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:41:59 PM
4	4.914	1.156ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:44:05 PM
5	4.889	1.150ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:46:11 PM
6	5.137	1.213ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:48:17 PM

Mean Area 5.245
Mean Conc. 1.241ppm



Sample

Sample Name: 280-89533-a-3
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

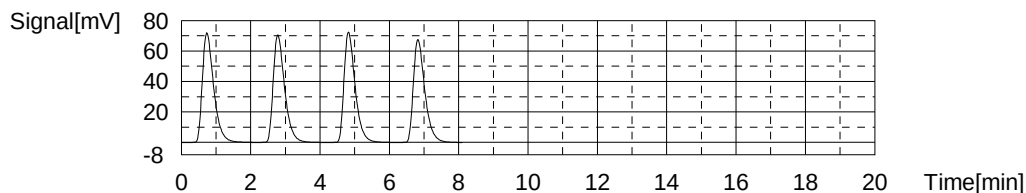
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:41.46ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	165.5	42.14ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:56:37 PM
2	164.1	41.79ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 01:58:52 PM
3	163.5	41.63ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:01:04 PM
4	158.2	40.28ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:03:17 PM

Mean Area 162.8
Mean Conc. 41.46ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

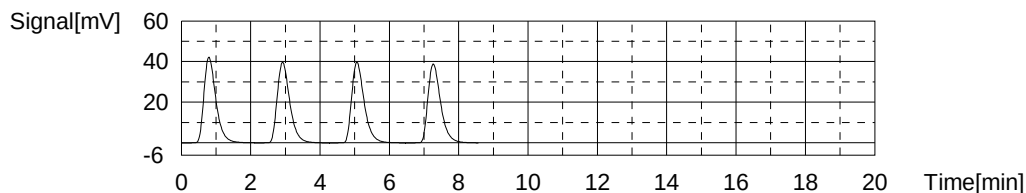
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:25.85ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	102.6	26.09ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:11:47 PM
2	102.1	25.96ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:14:09 PM
3	101.5	25.81ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:16:33 PM
4	100.4	25.53ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:18:51 PM

Mean Area 101.7
Mean Conc. 25.85ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

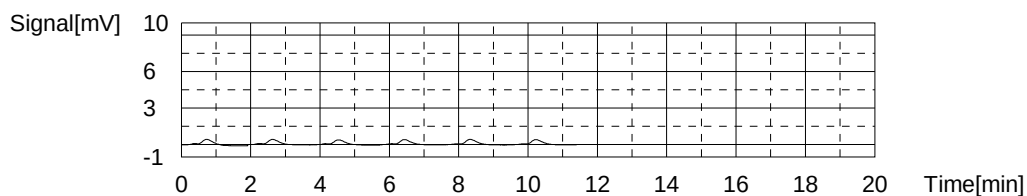
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1134ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.131	0.1904ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:27:09 PM
2	1.082	0.1779ppm	50uL	1	E	1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:29:15 PM
3	0.9943	0.1555ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:31:21 PM
4	0.7522	0.09373ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:33:27 PM
5	0.8074	0.1078ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:35:33 PM
6	0.7637	0.09667ppm	50uL	1		1-50 PPM TOC.2016_08_30_14_06_07.cal	10/25/2016 02:37:39 PM

Mean Area 0.8294
Mean Conc. 0.1134ppm



Date of Creation 11:15:53 AM 10/28/2005
User DEANN
System TOC-VCSH

Cal. Curve

Sample Name: cal
Sample ID: CAL
Cal. Curve: 1-50 PPM TOC.2016_08_30_14_06_07.cal
Status Completed
Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.2907	50uL	1	*****		08/30/2016 02:14:09 F
2	0.2491	50uL	1	*****		08/30/2016 02:16:15 F

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 0.2699
SD Area 0.02942
CV Area 10.90%
Vial 1

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.350	50uL	1	*****	E	08/30/2016 02:24:34 F
2	4.191	50uL	1	*****		08/30/2016 02:26:40 F
3	4.158	50uL	1	*****		08/30/2016 02:28:46 F

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 4.175
SD Area 0.02333
CV Area 0.56%
Vial 2

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	19.63	50uL	1	*****		08/30/2016 02:37:02 F
2	20.18	50uL	1	*****		08/30/2016 02:39:08 F

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 19.91
SD Area 0.3889
CV Area 1.95%
Vial 3

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	39.54	50uL	1	*****		08/30/2016 02:47:35 F
2	39.30	50uL	1	*****		08/30/2016 02:49:48 F

Acid Add. 1.500%
 Sp. Time 90.00sec
 Mean Area 39.42
 SD Area 0.1697
 CV Area 0.43%
 Vial 4

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	97.94	50uL	1	*****		08/30/2016 02:58:17 F
2	100.4	50uL	1	*****		08/30/2016 03:00:40 F

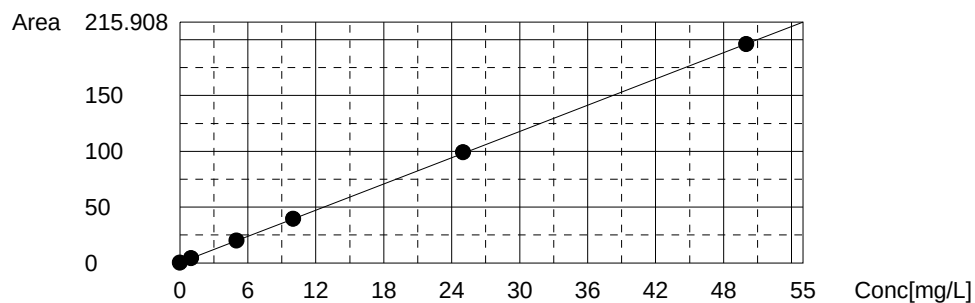
Acid Add. 1.500%
 Sp. Time 90.00sec
 Mean Area 99.17
 SD Area 1.739
 CV Area 1.75%
 Vial 5

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	194.0	50uL	1	*****		08/30/2016 03:09:23 F
2	197.8	50uL	1	*****		08/30/2016 03:11:50 F

Acid Add. 1.500%
 Sp. Time 90.00sec
 Mean Area 195.9
 SD Area 2.687
 CV Area 1.37%
 Vial 6

Slope: 3.918
 Intercept 0.3850
 r^2 1.0000
 r 1.0000
 Zero Shift No



Subcontract Data

Shipping and Receiving Documents



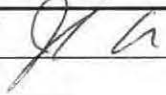
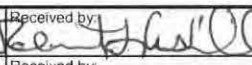
CHAIN OF CUSTODY RECORD

COC NO.: 1

[illegible]

1.6+0.0 IR# 5 transferred by JR 10/12/16

THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler:		Lab PM: 280-89533 Chain of Custody		SOC No: 280-372400.1	
Client Contact:		Phone:		E-Mail: jessica.deherrera@testamericainc.com		Page: Page 1 of 1	
Shipping/Receiving							
Company: TestAmerica Laboratories, Inc.				Analysis Requested			
Address: 13715 Rider Trail North,		Due Date Requested: 10/31/2016		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8260C, DOD5/5030C VOCs - TA St. Louis (for NY samples)		Total Number of containers	
City: Earth City		TAT Requested (days):					
State, Zip: MO, 63045		PO #:					
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:					
Email:		Project #:					
Project Name: Schenectady ANGB, NY		28015159					
Site:		SSOW#:					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Codes:	
						A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
						Other:	
						Special Instructions/Note:	
6MW2002 (280-89533-1)		10/11/16	15:31 Eastern		Water	X	3 DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2002MS (280-89533-1MS)		10/11/16	15:31 Eastern	MS	Water	X	3 DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2002MSD (280-89533-1MSD)		10/11/16	15:31 Eastern	MSD	Water	X	3 DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2002D (280-89533-2)		10/11/16	15:31 Eastern		Water	X	3 DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2302 (280-89533-3)		10/11/16	12:51 Eastern		Water	X	3 DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2202 (280-89533-4)		10/11/16	11:46 Eastern		Water	X	3 DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2402 (280-89533-5)		10/11/16	10:03 Eastern		Water	X	3 DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2502 (280-89533-6)		10/11/16	14:39 Eastern		Water	X	3 DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2602 (280-89533-7)		10/11/16	13:39 Eastern		Water	X	3 DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
TB03 (280-89533-8)		10/11/16	08:00 Eastern		Water	X	2 DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed				☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 4			
				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: 		Date/Time: 10/17/16 1615		Company: TA DEHERRERA		Received by:  Date/Time: 10-18-16 0910	
Relinquished by:		Date/Time:		Company:		Received by:	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			
A Yes A No							

Page 360 of 363

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 280-89533-1

Login Number: 89533

List Source: TestAmerica Denver

List Number: 1

Creator: True, Joshua A

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.	N/A	
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	

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 280-89533-1

Login Number: 89533

List Number: 2

Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

List Creation: 10/19/16 03:33 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	4.6
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?	False	
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	

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 280-89533-1

Login Number: 89533
List Number: 3
Creator: Daniels, Brian J

List Source: TestAmerica St. Louis
List Creation: 10/20/16 03:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	1.7
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

JANUARY 2017

THIS PAGE WAS INTENTIONALLY LEFT BLANK.

ANALYTICAL REPORT

Job Number: 280-92896-1

Job Description: Schenectady ANGB, NY

For:

Leidos, Inc.

301 Laboratory Road

Leidos SSC-AP

LOC #47, MS 2113-03

Oak Ridge, TN 37830

Attention: Mr. Michael Poligone



Approved for release.
Jessica H DeHerrera
Project Manager I
1/27/2017 11:32 AM

Jessica H DeHerrera, Project Manager I
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0165
jessica.deherrera@testamericainc.com
01/27/2017

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

The Lab Certification ID# is 4025.

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

TestAmerica Laboratories, Inc.

TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002

Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com



Table of Contents

Cover Title Page	1
Data Summaries	4
Definitions	4
Case Narrative	5
Detection Summary	7
Client Sample Results	9
Default Detection Limits	21
Surrogate Summary	23
QC Sample Results	24
QC Association	37
Chronicle	38
Certification Summary	40
Method Summary	42
Sample Summary	43
Manual Integration Summary	44
Reagent Traceability	47
COAs	63
Organic Sample Data	145
GC/MS VOA	145
Method 8260C DOD	145
Method 8260C DOD QC Summary	146
Method 8260C DOD Sample Data	165
Standards Data	234
Method 8260C DOD ICAL Data	234
Method 8260C DOD CCAL Data	282
Raw QC Data	325

Table of Contents

Method 8260C DOD Tune Data	325
Method 8260C DOD Blank Data	337
Method 8260C DOD LCS/LCSD Data	351
Method 8260C DOD MS/MSD Data	379
Method 8260C DOD Run Logs	395
Inorganic Sample Data	398
General Chemistry Data	398
Gen Chem Cover Page	399
Gen Chem Sample Data	400
Gen Chem QC Data	407
Gen Chem ICV/CCV	407
Gen Chem Blanks	408
Gen Chem MS/MSD/PDS	409
Gen Chem LCS/LCSD	411
Gen Chem MDL	412
Gen Chem Analysis Run Log	414
Gen Chem Prep Data	416
Gen Chem Raw Data	418
Subcontracted Data	460
Shipping and Receiving Documents	461
Client Chain of Custody	462
Sample Receipt Checklist	466

Definitions/Glossary

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
Q	One or more quality control criteria failed.

General Chemistry

Qualifier	Qualifier Description
J	Estimated: The analyte was positively identified; the quantitation is an estimation

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Leidos, Inc.

Project: Schenectady ANGB, NY

Report Number: 280-92896-1

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

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

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

RECEIPT

The samples were received on 01/11/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.6 C.

The container labels for the following sample did not match the information listed on the Chain-of-Custody (COC): 6MW2003D (280-92896-7). The container labels list Sample ID Duplicate, while the COC lists 6MW-20DUP. The sample ID was updated to 6MW2003D (280-92896-7) per a revised COC that was received on 1/12/2017.

The sample IDs for all samples were updated per a revised COC that was received on 1/12/2017.

The Chain-of-Custody (COC) was incomplete as received. The MS/MSD listed on the COC are not indicated for any parent samples. The MS/MSD were logged as 6MW2003MS (280-92896-6[MS]) and 6MW2003MSD (280-92896-6[MSD]) based on the above parent sample, 6MW-20, and the sample times were the closest in time. The parent sample and the associated MS/MSD were logged with a sample collection date and time of 1/9/17 at 1500. Additionally, duplicate, rather than triplicate, volume was received for the parent sample and MS/MSD. There is sufficient, but limited volume to perform the initial requested analyses. The client was notified on 1/12/17.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples 6MW2403 (280-92896-1), 6MW2203 (280-92896-2), 6MW2303 (280-92896-3), 6MW2603 (280-92896-4), 6MW2503 (280-92896-5), 6MW2003 (280-92896-6), 6MW2003D (280-92896-7) and TB04 (280-92896-8) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with 8260C_DOD5. The samples were analyzed on 01/16/2017, 01/17/2017 and 01/19/2017.

1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria high for TB04 (280-92896-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed. The associated results have been flagged "Q".

The continuing calibration verification (CCV 160-288297/3) associated with batch 160-288297 recovered above the upper control limit for Acetone. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-288297: 2-Butanone (MEK). The following compounds did not meet the minimum relative response factor limits in the closing continuing calibration verification (CCVC): Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCV 160-288297/3) and (CCVC 160-288297/20).

A matrix spike/matrix spike duplicate (MS/MSD) was not performed with analytical batch 160-288297. The only associated sample is a re-analysis for a failed surrogate. Surrogate recovery is acceptable in this re-analysis, which is reported. An MS/MSD was performed with the original analysis batch. A laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) were analyzed within this batch for QC purposes.

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) and closing continuing calibration verification (CCVC) associated with batch 160-287920: 2-Butanone and Acetone. A low level CCV was analyzed at the base reporting limit of 5ug/L and the affected analytes were detected. Affected target analytes recovering above the reporting limit in the associated samples will be qualified and reported. (CCV 160-287920/3) and (CCVC 160-287920/19).

1,2-Dichloroethane-d4 (Surr) recovery for LOQV 160-288297/6 was outside the upper control limit. This is a low level quantitation check and so sample data is not affected by this excursion. All sample data is included with this narrative.

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

TOTAL ORGANIC CARBON

Samples 6MW2403 (280-92896-1), 6MW2203 (280-92896-2), 6MW2303 (280-92896-3), 6MW2603 (280-92896-4), 6MW2503 (280-92896-5), 6MW2003 (280-92896-6) and 6MW2003D (280-92896-7) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 01/12/2017 and 01/13/2017.

Sample 6MW2203 (280-92896-2)[7X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Total Organic Carbon - Quad was detected in method blank MB 280-358691/39 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". However, because the result concentration was less than ½ the reporting limit, no corrective action was necessary.

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

Detection Summary

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2403

Lab Sample ID: 280-92896-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.0	J	5.0	0.15	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	3.6	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Trichloroethene	3.2	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	1.6	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	9.4		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2203

Lab Sample ID: 280-92896-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2-Hexanone	24		20	0.59	ug/L	1		8260C DOD	Total/NA
Acetone	63		20	6.7	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	1.6	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Tetrachloroethene	5.2		5.0	0.28	ug/L	1		8260C DOD	Total/NA
Trichloroethene	2.2	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	2.5	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	280		7.0	1.1	mg/L	7		9060A	Total/NA

Client Sample ID: 6MW2303

Lab Sample ID: 280-92896-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.93	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Tetrachloroethene	0.81	J	5.0	0.28	ug/L	1		8260C DOD	Total/NA
Trichloroethene	0.79	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	2.6		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2603

Lab Sample ID: 280-92896-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene - RA	0.52	J	5.0	0.40	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene - RA	2.5	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	6.1		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2503

Lab Sample ID: 280-92896-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.5	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	5.1		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2003

Lab Sample ID: 280-92896-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.1	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	2.3	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	8.0		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2003D

Lab Sample ID: 280-92896-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.1	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	2.4	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

Detection Summary

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2003D (Continued) Lab Sample ID: 280-92896-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Quad	8.4		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: TB04 Lab Sample ID: 280-92896-8

No Detections.

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2403

Date Collected: 01/09/17 10:50

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-1

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			01/16/17 22:04	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			01/16/17 22:04	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			01/16/17 22:04	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			01/16/17 22:04	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			01/16/17 22:04	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			01/16/17 22:04	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			01/16/17 22:04	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			01/16/17 22:04	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			01/16/17 22:04	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			01/16/17 22:04	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			01/16/17 22:04	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			01/16/17 22:04	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			01/16/17 22:04	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			01/16/17 22:04	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			01/16/17 22:04	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			01/16/17 22:04	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			01/16/17 22:04	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			01/16/17 22:04	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			01/16/17 22:04	1
2-Hexanone	2.0	U	20	0.59	ug/L			01/16/17 22:04	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			01/16/17 22:04	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			01/16/17 22:04	1
Acetone	10	U	20	6.7	ug/L			01/16/17 22:04	1
Benzene	1.0	U	5.0	0.25	ug/L			01/16/17 22:04	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			01/16/17 22:04	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			01/16/17 22:04	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			01/16/17 22:04	1
Bromoform	1.0	U	5.0	0.37	ug/L			01/16/17 22:04	1
Bromomethane	2.0	U	10	0.40	ug/L			01/16/17 22:04	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			01/16/17 22:04	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			01/16/17 22:04	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			01/16/17 22:04	1
Chloroethane	1.0	U	10	0.38	ug/L			01/16/17 22:04	1
Chloroform	1.0	J	5.0	0.15	ug/L			01/16/17 22:04	1
Chloromethane	2.0	U	10	0.55	ug/L			01/16/17 22:04	1
cis-1,2-Dichloroethene	3.6	J	5.0	0.16	ug/L			01/16/17 22:04	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			01/16/17 22:04	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			01/16/17 22:04	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			01/16/17 22:04	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			01/16/17 22:04	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			01/16/17 22:04	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			01/16/17 22:04	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			01/16/17 22:04	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			01/16/17 22:04	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			01/16/17 22:04	1
Naphthalene	2.0	U	5.0	0.85	ug/L			01/16/17 22:04	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			01/16/17 22:04	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			01/16/17 22:04	1
o-Xylene	1.0	U	5.0	0.32	ug/L			01/16/17 22:04	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2403

Date Collected: 01/09/17 10:50

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-1

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			01/16/17 22:04	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/16/17 22:04	1
Styrene	1.0	U	5.0	0.35	ug/L			01/16/17 22:04	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/16/17 22:04	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			01/16/17 22:04	1
Toluene	1.0	U	5.0	1.0	ug/L			01/16/17 22:04	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			01/16/17 22:04	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			01/16/17 22:04	1
Trichloroethene	3.2	J	5.0	0.29	ug/L			01/16/17 22:04	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			01/16/17 22:04	1
Vinyl chloride	1.6	J	5.0	0.43	ug/L			01/16/17 22:04	1
Xylenes (total)	5.0	U	10	0.85	ug/L			01/16/17 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		81 - 118		01/16/17 22:04	1
4-Bromofluorobenzene (Surr)	87		85 - 114		01/16/17 22:04	1
Dibromofluoromethane (Surr)	110		80 - 119		01/16/17 22:04	1
Toluene-d8 (Surr)	97		89 - 112		01/16/17 22:04	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	9.4		1.0	0.16	mg/L			01/12/17 23:13	1

Client Sample ID: 6MW2203

Date Collected: 01/09/17 11:50

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-2

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			01/16/17 22:29	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			01/16/17 22:29	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			01/16/17 22:29	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			01/16/17 22:29	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			01/16/17 22:29	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			01/16/17 22:29	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			01/16/17 22:29	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			01/16/17 22:29	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			01/16/17 22:29	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			01/16/17 22:29	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			01/16/17 22:29	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			01/16/17 22:29	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			01/16/17 22:29	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			01/16/17 22:29	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			01/16/17 22:29	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			01/16/17 22:29	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			01/16/17 22:29	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			01/16/17 22:29	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			01/16/17 22:29	1
2-Hexanone	24		20	0.59	ug/L			01/16/17 22:29	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			01/16/17 22:29	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2203

Lab Sample ID: 280-92896-2

Date Collected: 01/09/17 11:50

Matrix: Water

Date Received: 01/11/17 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			01/16/17 22:29	1
Acetone	63		20	6.7	ug/L			01/16/17 22:29	1
Benzene	1.0	U	5.0	0.25	ug/L			01/16/17 22:29	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			01/16/17 22:29	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			01/16/17 22:29	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			01/16/17 22:29	1
Bromoform	1.0	U	5.0	0.37	ug/L			01/16/17 22:29	1
Bromomethane	2.0	U	10	0.40	ug/L			01/16/17 22:29	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			01/16/17 22:29	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			01/16/17 22:29	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			01/16/17 22:29	1
Chloroethane	1.0	U	10	0.38	ug/L			01/16/17 22:29	1
Chloroform	1.0	U	5.0	0.15	ug/L			01/16/17 22:29	1
Chloromethane	2.0	U	10	0.55	ug/L			01/16/17 22:29	1
cis-1,2-Dichloroethene	1.6 J		5.0	0.16	ug/L			01/16/17 22:29	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			01/16/17 22:29	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			01/16/17 22:29	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			01/16/17 22:29	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			01/16/17 22:29	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			01/16/17 22:29	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			01/16/17 22:29	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			01/16/17 22:29	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			01/16/17 22:29	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			01/16/17 22:29	1
Naphthalene	2.0	U	5.0	0.85	ug/L			01/16/17 22:29	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			01/16/17 22:29	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			01/16/17 22:29	1
o-Xylene	1.0	U	5.0	0.32	ug/L			01/16/17 22:29	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			01/16/17 22:29	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/16/17 22:29	1
Styrene	1.0	U	5.0	0.35	ug/L			01/16/17 22:29	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/16/17 22:29	1
Tetrachloroethene	5.2		5.0	0.28	ug/L			01/16/17 22:29	1
Toluene	1.0	U	5.0	1.0	ug/L			01/16/17 22:29	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			01/16/17 22:29	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			01/16/17 22:29	1
Trichloroethene	2.2 J		5.0	0.29	ug/L			01/16/17 22:29	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			01/16/17 22:29	1
Vinyl chloride	2.5 J		5.0	0.43	ug/L			01/16/17 22:29	1
Xylenes (total)	5.0	U	10	0.85	ug/L			01/16/17 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		81 - 118		01/16/17 22:29	1
4-Bromofluorobenzene (Surr)	88		85 - 114		01/16/17 22:29	1
Dibromofluoromethane (Surr)	108		80 - 119		01/16/17 22:29	1
Toluene-d8 (Surr)	98		89 - 112		01/16/17 22:29	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	280		7.0	1.1	mg/L			01/12/17 23:38	7

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2303

Lab Sample ID: 280-92896-3

Date Collected: 01/09/17 12:45

Matrix: Water

Date Received: 01/11/17 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			01/16/17 22:54	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			01/16/17 22:54	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			01/16/17 22:54	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			01/16/17 22:54	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			01/16/17 22:54	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			01/16/17 22:54	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			01/16/17 22:54	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			01/16/17 22:54	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			01/16/17 22:54	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			01/16/17 22:54	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			01/16/17 22:54	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			01/16/17 22:54	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			01/16/17 22:54	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			01/16/17 22:54	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			01/16/17 22:54	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			01/16/17 22:54	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			01/16/17 22:54	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			01/16/17 22:54	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			01/16/17 22:54	1
2-Hexanone	2.0	U	20	0.59	ug/L			01/16/17 22:54	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			01/16/17 22:54	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			01/16/17 22:54	1
Acetone	10	U	20	6.7	ug/L			01/16/17 22:54	1
Benzene	1.0	U	5.0	0.25	ug/L			01/16/17 22:54	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			01/16/17 22:54	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			01/16/17 22:54	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			01/16/17 22:54	1
Bromoform	1.0	U	5.0	0.37	ug/L			01/16/17 22:54	1
Bromomethane	2.0	U	10	0.40	ug/L			01/16/17 22:54	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			01/16/17 22:54	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			01/16/17 22:54	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			01/16/17 22:54	1
Chloroethane	1.0	U	10	0.38	ug/L			01/16/17 22:54	1
Chloroform	1.0	U	5.0	0.15	ug/L			01/16/17 22:54	1
Chloromethane	2.0	U	10	0.55	ug/L			01/16/17 22:54	1
cis-1,2-Dichloroethene	0.93	J	5.0	0.16	ug/L			01/16/17 22:54	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			01/16/17 22:54	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			01/16/17 22:54	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			01/16/17 22:54	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			01/16/17 22:54	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			01/16/17 22:54	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			01/16/17 22:54	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			01/16/17 22:54	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			01/16/17 22:54	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			01/16/17 22:54	1
Naphthalene	2.0	U	5.0	0.85	ug/L			01/16/17 22:54	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			01/16/17 22:54	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			01/16/17 22:54	1
o-Xylene	1.0	U	5.0	0.32	ug/L			01/16/17 22:54	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2303

Date Collected: 01/09/17 12:45

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-3

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			01/16/17 22:54	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/16/17 22:54	1
Styrene	1.0	U	5.0	0.35	ug/L			01/16/17 22:54	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/16/17 22:54	1
Tetrachloroethene	0.81	J	5.0	0.28	ug/L			01/16/17 22:54	1
Toluene	1.0	U	5.0	1.0	ug/L			01/16/17 22:54	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			01/16/17 22:54	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			01/16/17 22:54	1
Trichloroethene	0.79	J	5.0	0.29	ug/L			01/16/17 22:54	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			01/16/17 22:54	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			01/16/17 22:54	1
Xylenes (total)	5.0	U	10	0.85	ug/L			01/16/17 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		81 - 118		01/16/17 22:54	1
4-Bromofluorobenzene (Surr)	86		85 - 114		01/16/17 22:54	1
Dibromofluoromethane (Surr)	107		80 - 119		01/16/17 22:54	1
Toluene-d8 (Surr)	96		89 - 112		01/16/17 22:54	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	2.6		1.0	0.16	mg/L			01/13/17 00:27	1

Client Sample ID: 6MW2603

Date Collected: 01/09/17 13:30

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-4

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			01/19/17 18:57	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			01/19/17 18:57	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			01/19/17 18:57	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			01/19/17 18:57	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			01/19/17 18:57	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			01/19/17 18:57	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			01/19/17 18:57	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			01/19/17 18:57	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			01/19/17 18:57	1
1,2,4-Trimethylbenzene	0.52	J	5.0	0.40	ug/L			01/19/17 18:57	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			01/19/17 18:57	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			01/19/17 18:57	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			01/19/17 18:57	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			01/19/17 18:57	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			01/19/17 18:57	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			01/19/17 18:57	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			01/19/17 18:57	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			01/19/17 18:57	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			01/19/17 18:57	1
2-Hexanone	2.0	U	20	0.59	ug/L			01/19/17 18:57	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			01/19/17 18:57	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2603

Lab Sample ID: 280-92896-4

Date Collected: 01/09/17 13:30

Matrix: Water

Date Received: 01/11/17 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			01/19/17 18:57	1
Acetone	10	U Q	20	6.7	ug/L			01/19/17 18:57	1
Benzene	1.0	U	5.0	0.25	ug/L			01/19/17 18:57	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			01/19/17 18:57	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			01/19/17 18:57	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			01/19/17 18:57	1
Bromoform	1.0	U	5.0	0.37	ug/L			01/19/17 18:57	1
Bromomethane	2.0	U	10	0.40	ug/L			01/19/17 18:57	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			01/19/17 18:57	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			01/19/17 18:57	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			01/19/17 18:57	1
Chloroethane	1.0	U	10	0.38	ug/L			01/19/17 18:57	1
Chloroform	1.0	U	5.0	0.15	ug/L			01/19/17 18:57	1
Chloromethane	2.0	U	10	0.55	ug/L			01/19/17 18:57	1
cis-1,2-Dichloroethene	2.5	J	5.0	0.16	ug/L			01/19/17 18:57	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			01/19/17 18:57	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			01/19/17 18:57	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			01/19/17 18:57	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			01/19/17 18:57	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			01/19/17 18:57	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			01/19/17 18:57	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			01/19/17 18:57	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			01/19/17 18:57	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			01/19/17 18:57	1
Naphthalene	2.0	U	5.0	0.85	ug/L			01/19/17 18:57	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			01/19/17 18:57	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			01/19/17 18:57	1
o-Xylene	1.0	U	5.0	0.32	ug/L			01/19/17 18:57	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			01/19/17 18:57	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/19/17 18:57	1
Styrene	1.0	U	5.0	0.35	ug/L			01/19/17 18:57	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/19/17 18:57	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			01/19/17 18:57	1
Toluene	1.0	U	5.0	1.0	ug/L			01/19/17 18:57	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			01/19/17 18:57	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			01/19/17 18:57	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			01/19/17 18:57	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			01/19/17 18:57	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			01/19/17 18:57	1
Xylenes (total)	5.0	U	10	0.85	ug/L			01/19/17 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		81 - 118		01/19/17 18:57	1
4-Bromofluorobenzene (Surr)	87		85 - 114		01/19/17 18:57	1
Dibromofluoromethane (Surr)	101		80 - 119		01/19/17 18:57	1
Toluene-d8 (Surr)	97		89 - 112		01/19/17 18:57	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	6.1		1.0	0.16	mg/L			01/13/17 00:42	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2503

Lab Sample ID: 280-92896-5

Date Collected: 01/09/17 14:15

Matrix: Water

Date Received: 01/11/17 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			01/16/17 23:44	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			01/16/17 23:44	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			01/16/17 23:44	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			01/16/17 23:44	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			01/16/17 23:44	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			01/16/17 23:44	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			01/16/17 23:44	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			01/16/17 23:44	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			01/16/17 23:44	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			01/16/17 23:44	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			01/16/17 23:44	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			01/16/17 23:44	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			01/16/17 23:44	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			01/16/17 23:44	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			01/16/17 23:44	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			01/16/17 23:44	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			01/16/17 23:44	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			01/16/17 23:44	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			01/16/17 23:44	1
2-Hexanone	2.0	U	20	0.59	ug/L			01/16/17 23:44	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			01/16/17 23:44	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			01/16/17 23:44	1
Acetone	10	U	20	6.7	ug/L			01/16/17 23:44	1
Benzene	1.0	U	5.0	0.25	ug/L			01/16/17 23:44	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			01/16/17 23:44	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			01/16/17 23:44	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			01/16/17 23:44	1
Bromoform	1.0	U	5.0	0.37	ug/L			01/16/17 23:44	1
Bromomethane	2.0	U	10	0.40	ug/L			01/16/17 23:44	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			01/16/17 23:44	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			01/16/17 23:44	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			01/16/17 23:44	1
Chloroethane	1.0	U	10	0.38	ug/L			01/16/17 23:44	1
Chloroform	1.0	U	5.0	0.15	ug/L			01/16/17 23:44	1
Chloromethane	2.0	U	10	0.55	ug/L			01/16/17 23:44	1
cis-1,2-Dichloroethene	1.5	J	5.0	0.16	ug/L			01/16/17 23:44	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			01/16/17 23:44	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			01/16/17 23:44	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			01/16/17 23:44	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			01/16/17 23:44	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			01/16/17 23:44	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			01/16/17 23:44	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			01/16/17 23:44	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			01/16/17 23:44	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			01/16/17 23:44	1
Naphthalene	2.0	U	5.0	0.85	ug/L			01/16/17 23:44	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			01/16/17 23:44	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			01/16/17 23:44	1
o-Xylene	1.0	U	5.0	0.32	ug/L			01/16/17 23:44	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2503

Date Collected: 01/09/17 14:15

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-5

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			01/16/17 23:44	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/16/17 23:44	1
Styrene	1.0	U	5.0	0.35	ug/L			01/16/17 23:44	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/16/17 23:44	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			01/16/17 23:44	1
Toluene	1.0	U	5.0	1.0	ug/L			01/16/17 23:44	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			01/16/17 23:44	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			01/16/17 23:44	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			01/16/17 23:44	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			01/16/17 23:44	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			01/16/17 23:44	1
Xylenes (total)	5.0	U	10	0.85	ug/L			01/16/17 23:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		81 - 118		01/16/17 23:44	1
4-Bromofluorobenzene (Surr)	91		85 - 114		01/16/17 23:44	1
Dibromofluoromethane (Surr)	114		80 - 119		01/16/17 23:44	1
Toluene-d8 (Surr)	101		89 - 112		01/16/17 23:44	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	5.1		1.0	0.16	mg/L			01/13/17 00:59	1

Client Sample ID: 6MW2003

Date Collected: 01/09/17 15:00

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-6

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			01/16/17 20:24	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			01/16/17 20:24	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			01/16/17 20:24	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			01/16/17 20:24	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			01/16/17 20:24	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			01/16/17 20:24	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			01/16/17 20:24	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			01/16/17 20:24	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			01/16/17 20:24	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			01/16/17 20:24	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			01/16/17 20:24	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			01/16/17 20:24	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			01/16/17 20:24	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			01/16/17 20:24	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			01/16/17 20:24	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			01/16/17 20:24	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			01/16/17 20:24	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			01/16/17 20:24	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			01/16/17 20:24	1
2-Hexanone	2.0	U	20	0.59	ug/L			01/16/17 20:24	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			01/16/17 20:24	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2003

Lab Sample ID: 280-92896-6

Date Collected: 01/09/17 15:00

Matrix: Water

Date Received: 01/11/17 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			01/16/17 20:24	1
Acetone	10	U	20	6.7	ug/L			01/16/17 20:24	1
Benzene	1.0	U	5.0	0.25	ug/L			01/16/17 20:24	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			01/16/17 20:24	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			01/16/17 20:24	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			01/16/17 20:24	1
Bromoform	1.0	U	5.0	0.37	ug/L			01/16/17 20:24	1
Bromomethane	2.0	U	10	0.40	ug/L			01/16/17 20:24	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			01/16/17 20:24	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			01/16/17 20:24	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			01/16/17 20:24	1
Chloroethane	1.0	U	10	0.38	ug/L			01/16/17 20:24	1
Chloroform	1.0	U	5.0	0.15	ug/L			01/16/17 20:24	1
Chloromethane	2.0	U	10	0.55	ug/L			01/16/17 20:24	1
cis-1,2-Dichloroethene	3.1	J	5.0	0.16	ug/L			01/16/17 20:24	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			01/16/17 20:24	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			01/16/17 20:24	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			01/16/17 20:24	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			01/16/17 20:24	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			01/16/17 20:24	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			01/16/17 20:24	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			01/16/17 20:24	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			01/16/17 20:24	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			01/16/17 20:24	1
Naphthalene	2.0	U	5.0	0.85	ug/L			01/16/17 20:24	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			01/16/17 20:24	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			01/16/17 20:24	1
o-Xylene	1.0	U	5.0	0.32	ug/L			01/16/17 20:24	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			01/16/17 20:24	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/16/17 20:24	1
Styrene	1.0	U	5.0	0.35	ug/L			01/16/17 20:24	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/16/17 20:24	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			01/16/17 20:24	1
Toluene	1.0	U	5.0	1.0	ug/L			01/16/17 20:24	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			01/16/17 20:24	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			01/16/17 20:24	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			01/16/17 20:24	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			01/16/17 20:24	1
Vinyl chloride	2.3	J	5.0	0.43	ug/L			01/16/17 20:24	1
Xylenes (total)	5.0	U	10	0.85	ug/L			01/16/17 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		81 - 118		01/16/17 20:24	1
4-Bromofluorobenzene (Surr)	89		85 - 114		01/16/17 20:24	1
Dibromofluoromethane (Surr)	109		80 - 119		01/16/17 20:24	1
Toluene-d8 (Surr)	99		89 - 112		01/16/17 20:24	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	8.0		1.0	0.16	mg/L			01/13/17 01:13	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2003D

Lab Sample ID: 280-92896-7

Date Collected: 01/09/17 15:05

Matrix: Water

Date Received: 01/11/17 10:00

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			01/17/17 00:08	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			01/17/17 00:08	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			01/17/17 00:08	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			01/17/17 00:08	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			01/17/17 00:08	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			01/17/17 00:08	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			01/17/17 00:08	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			01/17/17 00:08	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			01/17/17 00:08	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			01/17/17 00:08	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			01/17/17 00:08	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			01/17/17 00:08	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			01/17/17 00:08	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			01/17/17 00:08	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			01/17/17 00:08	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			01/17/17 00:08	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			01/17/17 00:08	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			01/17/17 00:08	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			01/17/17 00:08	1
2-Hexanone	2.0	U	20	0.59	ug/L			01/17/17 00:08	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			01/17/17 00:08	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			01/17/17 00:08	1
Acetone	10	U	20	6.7	ug/L			01/17/17 00:08	1
Benzene	1.0	U	5.0	0.25	ug/L			01/17/17 00:08	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			01/17/17 00:08	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			01/17/17 00:08	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			01/17/17 00:08	1
Bromoform	1.0	U	5.0	0.37	ug/L			01/17/17 00:08	1
Bromomethane	2.0	U	10	0.40	ug/L			01/17/17 00:08	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			01/17/17 00:08	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			01/17/17 00:08	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			01/17/17 00:08	1
Chloroethane	1.0	U	10	0.38	ug/L			01/17/17 00:08	1
Chloroform	1.0	U	5.0	0.15	ug/L			01/17/17 00:08	1
Chloromethane	2.0	U	10	0.55	ug/L			01/17/17 00:08	1
cis-1,2-Dichloroethene	3.1	J	5.0	0.16	ug/L			01/17/17 00:08	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			01/17/17 00:08	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			01/17/17 00:08	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			01/17/17 00:08	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			01/17/17 00:08	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			01/17/17 00:08	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			01/17/17 00:08	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			01/17/17 00:08	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			01/17/17 00:08	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			01/17/17 00:08	1
Naphthalene	2.0	U	5.0	0.85	ug/L			01/17/17 00:08	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			01/17/17 00:08	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			01/17/17 00:08	1
o-Xylene	1.0	U	5.0	0.32	ug/L			01/17/17 00:08	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2003D

Date Collected: 01/09/17 15:05

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-7

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			01/17/17 00:08	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/17/17 00:08	1
Styrene	1.0	U	5.0	0.35	ug/L			01/17/17 00:08	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/17/17 00:08	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			01/17/17 00:08	1
Toluene	1.0	U	5.0	1.0	ug/L			01/17/17 00:08	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			01/17/17 00:08	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			01/17/17 00:08	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			01/17/17 00:08	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			01/17/17 00:08	1
Vinyl chloride	2.4	J	5.0	0.43	ug/L			01/17/17 00:08	1
Xylenes (total)	5.0	U	10	0.85	ug/L			01/17/17 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		81 - 118		01/17/17 00:08	1
4-Bromofluorobenzene (Surr)	89		85 - 114		01/17/17 00:08	1
Dibromofluoromethane (Surr)	110		80 - 119		01/17/17 00:08	1
Toluene-d8 (Surr)	98		89 - 112		01/17/17 00:08	1

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	8.4		1.0	0.16	mg/L			01/13/17 01:59	1

Client Sample ID: TB04

Date Collected: 01/09/17 00:00

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-8

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			01/16/17 19:57	1
1,1,1-Trichloroethane	1.0	U Q	5.0	0.29	ug/L			01/16/17 19:57	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			01/16/17 19:57	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			01/16/17 19:57	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			01/16/17 19:57	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			01/16/17 19:57	1
1,1-Dichloropropene	1.0	U Q	5.0	0.30	ug/L			01/16/17 19:57	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			01/16/17 19:57	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			01/16/17 19:57	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			01/16/17 19:57	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			01/16/17 19:57	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			01/16/17 19:57	1
1,2-Dichloroethane	1.0	U Q	5.0	0.37	ug/L			01/16/17 19:57	1
1,2-Dichloropropane	1.0	U Q	5.0	0.32	ug/L			01/16/17 19:57	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			01/16/17 19:57	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			01/16/17 19:57	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			01/16/17 19:57	1
2-Butanone (MEK)	5.0	U Q	20	0.39	ug/L			01/16/17 19:57	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			01/16/17 19:57	1
2-Hexanone	2.0	U	20	0.59	ug/L			01/16/17 19:57	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			01/16/17 19:57	1

TestAmerica Denver

Client Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: TB04

Date Collected: 01/09/17 00:00

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-8

Matrix: Water

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

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			01/16/17 19:57	1
Acetone	10	U	20	6.7	ug/L			01/16/17 19:57	1
Benzene	1.0	U Q	5.0	0.25	ug/L			01/16/17 19:57	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			01/16/17 19:57	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			01/16/17 19:57	1
Bromodichloromethane	2.0	U Q	5.0	0.25	ug/L			01/16/17 19:57	1
Bromoform	1.0	U	5.0	0.37	ug/L			01/16/17 19:57	1
Bromomethane	2.0	U	10	0.40	ug/L			01/16/17 19:57	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			01/16/17 19:57	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			01/16/17 19:57	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			01/16/17 19:57	1
Chloroethane	1.0	U	10	0.38	ug/L			01/16/17 19:57	1
Chloroform	1.0	U	5.0	0.15	ug/L			01/16/17 19:57	1
Chloromethane	2.0	U	10	0.55	ug/L			01/16/17 19:57	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			01/16/17 19:57	1
cis-1,3-Dichloropropene	1.0	U Q	5.0	0.34	ug/L			01/16/17 19:57	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			01/16/17 19:57	1
Dibromomethane	2.0	U Q	5.0	0.41	ug/L			01/16/17 19:57	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			01/16/17 19:57	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			01/16/17 19:57	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			01/16/17 19:57	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			01/16/17 19:57	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			01/16/17 19:57	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			01/16/17 19:57	1
Naphthalene	2.0	U	5.0	0.85	ug/L			01/16/17 19:57	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			01/16/17 19:57	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			01/16/17 19:57	1
o-Xylene	1.0	U	5.0	0.32	ug/L			01/16/17 19:57	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			01/16/17 19:57	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/16/17 19:57	1
Styrene	1.0	U	5.0	0.35	ug/L			01/16/17 19:57	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/16/17 19:57	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			01/16/17 19:57	1
Toluene	1.0	U	5.0	1.0	ug/L			01/16/17 19:57	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			01/16/17 19:57	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			01/16/17 19:57	1
Trichloroethene	1.0	U Q	5.0	0.29	ug/L			01/16/17 19:57	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			01/16/17 19:57	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			01/16/17 19:57	1
Xylenes (total)	5.0	U	10	0.85	ug/L			01/16/17 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121	Q	81 - 118		01/16/17 19:57	1
4-Bromofluorobenzene (Surr)	86		85 - 114		01/16/17 19:57	1
Dibromofluoromethane (Surr)	112		80 - 119		01/16/17 19:57	1
Toluene-d8 (Surr)	92		89 - 112		01/16/17 19:57	1

TestAmerica Denver

Default Detection Limits

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

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

Analyte	LOQ	DL	Units	Method
1,1,1,2-Tetrachloroethane	5.0	0.25	ug/L	8260C DOD
1,1,1-Trichloroethane	5.0	0.29	ug/L	8260C DOD
1,1,2,2-Tetrachloroethane	5.0	0.43	ug/L	8260C DOD
1,1,2-Trichloroethane	5.0	0.57	ug/L	8260C DOD
1,1-Dichloroethane	5.0	0.39	ug/L	8260C DOD
1,1-Dichloroethene	5.0	0.37	ug/L	8260C DOD
1,1-Dichloropropene	5.0	0.30	ug/L	8260C DOD
1,2,3-Trichlorobenzene	5.0	0.65	ug/L	8260C DOD
1,2,3-Trichloropropane	5.0	0.56	ug/L	8260C DOD
1,2,4-Trimethylbenzene	5.0	0.40	ug/L	8260C DOD
1,2-Dibromo-3-Chloropropane	10	1.2	ug/L	8260C DOD
1,2-Dibromoethane	5.0	0.44	ug/L	8260C DOD
1,2-Dichloroethane	5.0	0.37	ug/L	8260C DOD
1,2-Dichloropropane	5.0	0.32	ug/L	8260C DOD
1,3,5-Trimethylbenzene	5.0	0.28	ug/L	8260C DOD
1,3-Dichloropropane	5.0	0.24	ug/L	8260C DOD
2,2-Dichloropropane	5.0	0.54	ug/L	8260C DOD
2-Butanone (MEK)	20	0.39	ug/L	8260C DOD
2-Chlorotoluene	5.0	0.34	ug/L	8260C DOD
2-Hexanone	20	0.59	ug/L	8260C DOD
4-Chlorotoluene	5.0	0.31	ug/L	8260C DOD
4-Methyl-2-pentanone (MIBK)	20	0.33	ug/L	8260C DOD
Acetone	20	6.7	ug/L	8260C DOD
Benzene	5.0	0.25	ug/L	8260C DOD
Bromobenzene	5.0	0.33	ug/L	8260C DOD
Bromochloromethane	5.0	0.55	ug/L	8260C DOD
Bromodichloromethane	5.0	0.25	ug/L	8260C DOD
Bromoform	5.0	0.37	ug/L	8260C DOD
Bromomethane	10	0.40	ug/L	8260C DOD
Carbon disulfide	5.0	0.37	ug/L	8260C DOD
Carbon tetrachloride	5.0	0.36	ug/L	8260C DOD
Chlorobenzene	5.0	0.38	ug/L	8260C DOD
Chloroethane	10	0.38	ug/L	8260C DOD
Chloroform	5.0	0.15	ug/L	8260C DOD
Chloromethane	10	0.55	ug/L	8260C DOD
cis-1,2-Dichloroethene	5.0	0.16	ug/L	8260C DOD
cis-1,3-Dichloropropene	5.0	0.34	ug/L	8260C DOD
Dibromochloromethane	5.0	0.33	ug/L	8260C DOD
Dibromomethane	5.0	0.41	ug/L	8260C DOD
Dichlorodifluoromethane	10	0.45	ug/L	8260C DOD
Ethylbenzene	5.0	0.30	ug/L	8260C DOD
Isopropylbenzene	5.0	0.26	ug/L	8260C DOD
m,p-Xylenes	5.0	0.57	ug/L	8260C DOD
Methyl tert-butyl ether	5.0	0.40	ug/L	8260C DOD
Methylene Chloride	7.5	1.7	ug/L	8260C DOD
Naphthalene	5.0	0.85	ug/L	8260C DOD
n-Butylbenzene	5.0	0.23	ug/L	8260C DOD
N-Propylbenzene	5.0	0.30	ug/L	8260C DOD
o-Xylene	5.0	0.32	ug/L	8260C DOD
p-Isopropyltoluene	5.0	0.32	ug/L	8260C DOD
sec-Butylbenzene	5.0	0.31	ug/L	8260C DOD
Styrene	5.0	0.35	ug/L	8260C DOD

TestAmerica Denver

Default Detection Limits

Client: Leidos, Inc.

TestAmerica Job ID: 280-92896-1

Project/Site: Schenectady ANGB, NY

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

Analyte	LOQ	DL	Units	Method
tert-Butylbenzene	5.0	0.31	ug/L	8260C DOD
Tetrachloroethene	5.0	0.28	ug/L	8260C DOD
Toluene	5.0	1.0	ug/L	8260C DOD
trans-1,2-Dichloroethene	5.0	0.18	ug/L	8260C DOD
trans-1,3-Dichloropropene	5.0	0.35	ug/L	8260C DOD
Trichloroethene	5.0	0.29	ug/L	8260C DOD
Trichlorofluoromethane	5.0	0.22	ug/L	8260C DOD
Vinyl chloride	5.0	0.43	ug/L	8260C DOD
Xylenes (total)	10	0.85	ug/L	8260C DOD

General Chemistry

Analyte	LOQ	DL	Units	Method
Total Organic Carbon - Quad	1.0	0.16	mg/L	9060A

Surrogate Summary

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (81-118)	BFB (85-114)	DBFM (80-119)	TOL (89-112)
280-92896-1	6MW2403	112	87	110	97
280-92896-2	6MW2203	111	88	108	98
280-92896-3	6MW2303	108	86	107	96
280-92896-4 - RA	6MW2603	107	87	101	97
280-92896-5	6MW2503	114	91	114	101
280-92896-6	6MW2003	111	89	109	99
280-92896-6 MS	6MW2003MS	103	91	105	98
280-92896-6 MSD	6MW2003MSD	103	91	104	96
280-92896-7	6MW2003D	111	89	110	98
280-92896-8	TB04	121 Q	86	112	92
LCS 160-287920/4	Lab Control Sample	103	94	104	100
LCS 160-288297/4	Lab Control Sample	108	96	104	101
LCSD 160-287920/5	Lab Control Sample Dup	102	95	105	102
LCSD 160-288297/5	Lab Control Sample Dup	108	97	105	104
MB 160-287920/7	Method Blank	112	90	109	100
MB 160-288297/7	Method Blank	112	90	105	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

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

Lab Sample ID: MB 160-287920/7

Matrix: Water

Analysis Batch: 287920

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			01/16/17 19:33	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			01/16/17 19:33	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			01/16/17 19:33	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			01/16/17 19:33	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			01/16/17 19:33	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			01/16/17 19:33	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			01/16/17 19:33	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			01/16/17 19:33	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			01/16/17 19:33	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			01/16/17 19:33	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			01/16/17 19:33	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			01/16/17 19:33	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			01/16/17 19:33	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			01/16/17 19:33	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			01/16/17 19:33	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			01/16/17 19:33	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			01/16/17 19:33	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			01/16/17 19:33	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			01/16/17 19:33	1
2-Hexanone	2.0	U	20	0.59	ug/L			01/16/17 19:33	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			01/16/17 19:33	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			01/16/17 19:33	1
Acetone	10	U	20	6.7	ug/L			01/16/17 19:33	1
Benzene	1.0	U	5.0	0.25	ug/L			01/16/17 19:33	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			01/16/17 19:33	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			01/16/17 19:33	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			01/16/17 19:33	1
Bromoform	1.0	U	5.0	0.37	ug/L			01/16/17 19:33	1
Bromomethane	2.0	U	10	0.40	ug/L			01/16/17 19:33	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			01/16/17 19:33	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			01/16/17 19:33	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			01/16/17 19:33	1
Chloroethane	1.0	U	10	0.38	ug/L			01/16/17 19:33	1
Chloroform	1.0	U	5.0	0.15	ug/L			01/16/17 19:33	1
Chloromethane	2.0	U	10	0.55	ug/L			01/16/17 19:33	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			01/16/17 19:33	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			01/16/17 19:33	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			01/16/17 19:33	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			01/16/17 19:33	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			01/16/17 19:33	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			01/16/17 19:33	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			01/16/17 19:33	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			01/16/17 19:33	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			01/16/17 19:33	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			01/16/17 19:33	1
Naphthalene	2.0	U	5.0	0.85	ug/L			01/16/17 19:33	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			01/16/17 19:33	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			01/16/17 19:33	1

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

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

Lab Sample ID: MB 160-287920/7

Matrix: Water

Analysis Batch: 287920

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	1.0	U	5.0	0.32	ug/L			01/16/17 19:33	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			01/16/17 19:33	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/16/17 19:33	1
Styrene	1.0	U	5.0	0.35	ug/L			01/16/17 19:33	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/16/17 19:33	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			01/16/17 19:33	1
Toluene	1.0	U	5.0	1.0	ug/L			01/16/17 19:33	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			01/16/17 19:33	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			01/16/17 19:33	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			01/16/17 19:33	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			01/16/17 19:33	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			01/16/17 19:33	1
Xylenes (total)	5.0	U	10	0.85	ug/L			01/16/17 19:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		81 - 118		01/16/17 19:33	1
4-Bromofluorobenzene (Surr)	90		85 - 114		01/16/17 19:33	1
Dibromofluoromethane (Surr)	109		80 - 119		01/16/17 19:33	1
Toluene-d8 (Surr)	100		89 - 112		01/16/17 19:33	1

Lab Sample ID: LCS 160-287920/4

Matrix: Water

Analysis Batch: 287920

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	50.2		ug/L		100	78 - 124
1,1,1-Trichloroethane	50.0	49.9		ug/L		100	74 - 131
1,1,2,2-Tetrachloroethane	50.0	45.0		ug/L		90	71 - 121
1,1,2-Trichloroethane	50.0	46.9		ug/L		94	80 - 119
1,1-Dichloroethane	50.0	47.3		ug/L		95	77 - 125
1,1-Dichloroethene	50.0	49.5		ug/L		99	71 - 131
1,1-Dichloropropene	50.0	49.0		ug/L		98	79 - 125
1,2,3-Trichlorobenzene	50.0	50.9		ug/L		102	69 - 129
1,2,3-Trichloropropane	50.0	47.1		ug/L		94	73 - 122
1,2,4-Trimethylbenzene	50.0	48.1		ug/L		96	76 - 124
1,2-Dibromo-3-Chloropropane	50.0	46.8		ug/L		94	62 - 128
1,2-Dibromoethane	50.0	48.3		ug/L		97	80 - 120
1,2-Dichloroethane	50.0	48.6		ug/L		97	73 - 128
1,2-Dichloropropane	50.0	47.5		ug/L		95	78 - 122
1,3,5-Trimethylbenzene	50.0	47.9		ug/L		96	75 - 124
1,3-Dichloropropane	50.0	46.5		ug/L		93	80 - 119
2,2-Dichloropropane	50.0	46.5		ug/L		93	60 - 139
2-Butanone (MEK)	50.0	49.7		ug/L		99	56 - 143
2-Chlorotoluene	50.0	47.5		ug/L		95	79 - 122
2-Hexanone	50.0	46.4		ug/L		93	57 - 139
4-Chlorotoluene	50.0	46.6		ug/L		93	78 - 122
4-Methyl-2-pentanone (MIBK)	50.0	46.2		ug/L		92	67 - 130
Acetone	50.0	56.0		ug/L		112	39 - 160

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

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

Lab Sample ID: LCS 160-287920/4

Matrix: Water

Analysis Batch: 287920

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	45.7		ug/L		91	79 - 120
Bromobenzene	50.0	48.0		ug/L		96	80 - 120
Bromochloromethane	50.0	50.4		ug/L		101	78 - 123
Bromodichloromethane	50.0	51.5		ug/L		103	79 - 125
Bromoform	50.0	54.0		ug/L		108	66 - 130
Bromomethane	50.0	53.0		ug/L		106	53 - 141
Carbon disulfide	50.0	49.1		ug/L		98	64 - 133
Carbon tetrachloride	50.0	52.1		ug/L		104	72 - 136
Chlorobenzene	50.0	48.8		ug/L		98	82 - 118
Chloroethane	50.0	46.4		ug/L		93	60 - 138
Chloroform	50.0	48.9		ug/L		98	79 - 124
Chloromethane	50.0	48.0		ug/L		96	50 - 139
cis-1,2-Dichloroethene	50.0	47.4		ug/L		95	78 - 123
cis-1,3-Dichloropropene	50.0	50.1		ug/L		100	75 - 124
Dibromochloromethane	50.0	51.5		ug/L		103	74 - 126
Dibromomethane	50.0	50.7		ug/L		101	79 - 123
Dichlorodifluoromethane	50.0	56.6		ug/L		113	32 - 152
Ethylbenzene	50.0	46.6		ug/L		93	79 - 121
Isopropylbenzene	50.0	47.7		ug/L		95	72 - 131
m,p-Xylenes	50.0	47.3		ug/L		95	80 - 121
Methyl tert-butyl ether	50.0	44.5		ug/L		89	71 - 124
Methylene Chloride	50.0	47.7		ug/L		95	74 - 124
Naphthalene	50.0	49.1		ug/L		98	61 - 128
n-Butylbenzene	50.0	50.7		ug/L		101	75 - 128
N-Propylbenzene	50.0	48.6		ug/L		97	76 - 126
o-Xylene	50.0	47.6		ug/L		95	78 - 122
p-Isopropyltoluene	50.0	49.3		ug/L		99	77 - 127
sec-Butylbenzene	50.0	49.1		ug/L		98	77 - 126
Styrene	50.0	47.1		ug/L		94	78 - 123
tert-Butylbenzene	50.0	48.3		ug/L		97	78 - 124
Tetrachloroethene	50.0	49.8		ug/L		100	74 - 129
Toluene	50.0	45.8		ug/L		92	80 - 121
trans-1,2-Dichloroethene	50.0	48.1		ug/L		96	75 - 124
trans-1,3-Dichloropropene	50.0	48.9		ug/L		98	73 - 127
Trichloroethene	50.0	49.4		ug/L		99	79 - 123
Trichlorofluoromethane	50.0	54.9		ug/L		110	65 - 141
Vinyl chloride	50.0	51.1		ug/L		102	58 - 137
Xylenes (total)	100	94.9		ug/L		95	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		81 - 118
4-Bromofluorobenzene (Surr)	94		85 - 114
Dibromofluoromethane (Surr)	104		80 - 119
Toluene-d8 (Surr)	100		89 - 112

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

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

Lab Sample ID: LCSD 160-287920/5

Matrix: Water

Analysis Batch: 287920

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	50.2		ug/L		100	78 - 124	0	20
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	74 - 131	2	20
1,1,2,2-Tetrachloroethane	50.0	44.2		ug/L		88	71 - 121	2	20
1,1,2-Trichloroethane	50.0	47.2		ug/L		94	80 - 119	1	20
1,1-Dichloroethane	50.0	48.0		ug/L		96	77 - 125	1	20
1,1-Dichloroethene	50.0	49.8		ug/L		100	71 - 131	1	20
1,1-Dichloropropene	50.0	49.4		ug/L		99	79 - 125	1	20
1,2,3-Trichlorobenzene	50.0	51.8		ug/L		104	69 - 129	2	20
1,2,3-Trichloropropane	50.0	46.4		ug/L		93	73 - 122	2	20
1,2,4-Trimethylbenzene	50.0	48.7		ug/L		97	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	50.0	46.3		ug/L		93	62 - 128	1	20
1,2-Dibromoethane	50.0	46.6		ug/L		93	80 - 120	4	20
1,2-Dichloroethane	50.0	48.6		ug/L		97	73 - 128	0	20
1,2-Dichloropropane	50.0	48.0		ug/L		96	78 - 122	1	20
1,3,5-Trimethylbenzene	50.0	49.0		ug/L		98	75 - 124	2	20
1,3-Dichloropropane	50.0	46.8		ug/L		94	80 - 119	1	20
2,2-Dichloropropane	50.0	46.5		ug/L		93	60 - 139	0	20
2-Butanone (MEK)	50.0	47.1		ug/L		94	56 - 143	5	20
2-Chlorotoluene	50.0	48.4		ug/L		97	79 - 122	2	20
2-Hexanone	50.0	44.1		ug/L		88	57 - 139	5	20
4-Chlorotoluene	50.0	47.9		ug/L		96	78 - 122	3	20
4-Methyl-2-pentanone (MIBK)	50.0	44.6		ug/L		89	67 - 130	3	20
Acetone	50.0	50.1		ug/L		100	39 - 160	11	20
Benzene	50.0	46.1		ug/L		92	79 - 120	1	20
Bromobenzene	50.0	48.4		ug/L		97	80 - 120	1	20
Bromochloromethane	50.0	50.7		ug/L		101	78 - 123	1	20
Bromodichloromethane	50.0	51.4		ug/L		103	79 - 125	0	20
Bromoform	50.0	53.0		ug/L		106	66 - 130	2	20
Bromomethane	50.0	54.6		ug/L		109	53 - 141	3	20
Carbon disulfide	50.0	49.3		ug/L		99	64 - 133	0	20
Carbon tetrachloride	50.0	53.6		ug/L		107	72 - 136	3	20
Chlorobenzene	50.0	49.8		ug/L		100	82 - 118	2	20
Chloroethane	50.0	47.5		ug/L		95	60 - 138	2	20
Chloroform	50.0	49.1		ug/L		98	79 - 124	1	20
Chloromethane	50.0	48.9		ug/L		98	50 - 139	2	20
cis-1,2-Dichloroethene	50.0	48.5		ug/L		97	78 - 123	2	20
cis-1,3-Dichloropropene	50.0	50.6		ug/L		101	75 - 124	1	20
Dibromochloromethane	50.0	51.1		ug/L		102	74 - 126	1	20
Dibromomethane	50.0	50.1		ug/L		100	79 - 123	1	20
Dichlorodifluoromethane	50.0	55.5		ug/L		111	32 - 152	2	20
Ethylbenzene	50.0	47.6		ug/L		95	79 - 121	2	20
Isopropylbenzene	50.0	48.9		ug/L		98	72 - 131	2	20
m,p-Xylenes	50.0	48.1		ug/L		96	80 - 121	2	20
Methyl tert-butyl ether	50.0	44.2		ug/L		88	71 - 124	1	20
Methylene Chloride	50.0	48.5		ug/L		97	74 - 124	2	20
Naphthalene	50.0	48.9		ug/L		98	61 - 128	1	20
n-Butylbenzene	50.0	51.7		ug/L		103	75 - 128	2	20
N-Propylbenzene	50.0	49.8		ug/L		100	76 - 126	2	20

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

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

Lab Sample ID: LCSD 160-287920/5

Matrix: Water

Analysis Batch: 287920

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	50.0	49.2		ug/L		98	78 - 122	3	20
p-Isopropyltoluene	50.0	50.9		ug/L		102	77 - 127	3	20
sec-Butylbenzene	50.0	50.2		ug/L		100	77 - 126	2	20
Styrene	50.0	48.1		ug/L		96	78 - 123	2	20
tert-Butylbenzene	50.0	49.5		ug/L		99	78 - 124	3	20
Tetrachloroethene	50.0	50.5		ug/L		101	74 - 129	1	20
Toluene	50.0	46.4		ug/L		93	80 - 121	1	20
trans-1,2-Dichloroethene	50.0	48.7		ug/L		97	75 - 124	1	20
trans-1,3-Dichloropropene	50.0	48.7		ug/L		97	73 - 127	0	20
Trichloroethene	50.0	50.6		ug/L		101	79 - 123	2	20
Trichlorofluoromethane	50.0	55.7		ug/L		111	65 - 141	1	20
Vinyl chloride	50.0	51.7		ug/L		103	58 - 137	1	20
Xylenes (total)	100	97.3		ug/L		97	79 - 121	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		81 - 118
4-Bromofluorobenzene (Surr)	95		85 - 114
Dibromofluoromethane (Surr)	105		80 - 119
Toluene-d8 (Surr)	102		89 - 112

Lab Sample ID: 280-92896-6 MS

Matrix: Water

Analysis Batch: 287920

Client Sample ID: 6MW2003MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2.0	U	50.0	50.3		ug/L		101	78 - 124
1,1,1-Trichloroethane	1.0	U	50.0	51.2		ug/L		102	74 - 131
1,1,2,2-Tetrachloroethane	2.0	U	50.0	43.9		ug/L		88	71 - 121
1,1,2-Trichloroethane	1.0	U	50.0	47.3		ug/L		95	80 - 119
1,1-Dichloroethane	1.0	U	50.0	48.6		ug/L		97	77 - 125
1,1-Dichloroethene	1.0	U	50.0	49.6		ug/L		99	71 - 131
1,1-Dichloropropene	1.0	U	50.0	49.3		ug/L		99	79 - 125
1,2,3-Trichlorobenzene	2.0	U	50.0	49.1		ug/L		98	69 - 129
1,2,3-Trichloropropane	1.0	U	50.0	45.6		ug/L		91	73 - 122
1,2,4-Trimethylbenzene	2.0	U	50.0	47.1		ug/L		94	76 - 124
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	43.9		ug/L		88	62 - 128
1,2-Dibromoethane	2.0	U	50.0	47.6		ug/L		95	80 - 120
1,2-Dichloroethane	1.0	U	50.0	50.0		ug/L		100	73 - 128
1,2-Dichloropropane	1.0	U	50.0	48.8		ug/L		98	78 - 122
1,3,5-Trimethylbenzene	2.0	U	50.0	47.3		ug/L		95	75 - 124
1,3-Dichloropropane	1.0	U	50.0	46.9		ug/L		94	80 - 119
2,2-Dichloropropane	2.0	U	50.0	47.6		ug/L		95	60 - 139
2-Butanone (MEK)	5.0	U	50.0	48.1		ug/L		96	56 - 143
2-Chlorotoluene	2.0	U	50.0	47.1		ug/L		94	79 - 122
2-Hexanone	2.0	U	50.0	43.5		ug/L		87	57 - 139
4-Chlorotoluene	2.0	U	50.0	46.6		ug/L		93	78 - 122
4-Methyl-2-pentanone (MIBK)	2.0	U	50.0	44.1		ug/L		88	67 - 130
Acetone	10	U	50.0	55.4		ug/L		111	39 - 160

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

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

Lab Sample ID: 280-92896-6 MS

Matrix: Water

Analysis Batch: 287920

Client Sample ID: 6MW2003MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	1.0	U	50.0	46.7		ug/L		93	79 - 120
Bromobenzene	2.0	U	50.0	48.2		ug/L		96	80 - 120
Bromochloromethane	2.0	U	50.0	52.2		ug/L		104	78 - 123
Bromodichloromethane	2.0	U	50.0	52.5		ug/L		105	79 - 125
Bromoform	1.0	U	50.0	50.5		ug/L		101	66 - 130
Bromomethane	2.0	U	50.0	53.8		ug/L		108	53 - 141
Carbon disulfide	1.0	U	50.0	50.5		ug/L		101	64 - 133
Carbon tetrachloride	1.0	U	50.0	51.7		ug/L		103	72 - 136
Chlorobenzene	1.0	U	50.0	49.7		ug/L		99	82 - 118
Chloroethane	1.0	U	50.0	47.3		ug/L		95	60 - 138
Chloroform	1.0	U	50.0	49.8		ug/L		100	79 - 124
Chloromethane	2.0	U	50.0	41.8		ug/L		84	50 - 139
cis-1,2-Dichloroethene	3.1	J	50.0	52.6		ug/L		99	78 - 123
cis-1,3-Dichloropropene	1.0	U	50.0	50.8		ug/L		102	75 - 124
Dibromochloromethane	1.0	U	50.0	50.7		ug/L		101	74 - 126
Dibromomethane	2.0	U	50.0	50.6		ug/L		101	79 - 123
Dichlorodifluoromethane	2.0	U	50.0	54.4		ug/L		109	32 - 152
Ethylbenzene	1.0	U	50.0	47.2		ug/L		94	79 - 121
Isopropylbenzene	2.0	U	50.0	47.4		ug/L		95	72 - 131
m,p-Xylenes	1.0	U	50.0	47.3		ug/L		95	80 - 121
Methyl tert-butyl ether	2.0	U	50.0	45.5		ug/L		91	71 - 124
Methylene Chloride	5.0	U	50.0	49.7		ug/L		99	74 - 124
Naphthalene	2.0	U	50.0	46.5		ug/L		93	61 - 128
n-Butylbenzene	2.0	U	50.0	50.3		ug/L		101	75 - 128
N-Propylbenzene	2.0	U	50.0	47.9		ug/L		96	76 - 126
o-Xylene	1.0	U	50.0	48.2		ug/L		96	78 - 122
p-Isopropyltoluene	2.0	U	50.0	48.8		ug/L		98	77 - 127
sec-Butylbenzene	2.0	U	50.0	48.2		ug/L		96	77 - 126
Styrene	1.0	U	50.0	47.9		ug/L		96	78 - 123
tert-Butylbenzene	2.0	U	50.0	48.0		ug/L		96	78 - 124
Tetrachloroethene	1.0	U	50.0	49.5		ug/L		99	74 - 129
Toluene	1.0	U	50.0	46.3		ug/L		93	80 - 121
trans-1,2-Dichloroethene	1.0	U	50.0	49.8		ug/L		100	75 - 124
trans-1,3-Dichloropropene	1.0	U	50.0	48.6		ug/L		97	73 - 127
Trichloroethene	1.0	U	50.0	50.9		ug/L		102	79 - 123
Trichlorofluoromethane	2.0	U	50.0	55.3		ug/L		111	65 - 141
Vinyl chloride	2.3	J	50.0	50.7		ug/L		97	58 - 137
Xylenes (total)	5.0	U	100	95.5		ug/L		96	79 - 121

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		81 - 118
4-Bromofluorobenzene (Surr)	91		85 - 114
Dibromofluoromethane (Surr)	105		80 - 119
Toluene-d8 (Surr)	98		89 - 112

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

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

Lab Sample ID: 280-92896-6 MSD

Matrix: Water

Analysis Batch: 287920

Client Sample ID: 6MW2003MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	2.0	U	50.0	50.4		ug/L		101	78 - 124	0	20
1,1,1-Trichloroethane	1.0	U	50.0	50.2		ug/L		100	74 - 131	2	20
1,1,2,2-Tetrachloroethane	2.0	U	50.0	44.7		ug/L		89	71 - 121	2	20
1,1,2-Trichloroethane	1.0	U	50.0	46.2		ug/L		92	80 - 119	2	20
1,1-Dichloroethane	1.0	U	50.0	47.7		ug/L		95	77 - 125	2	20
1,1-Dichloroethene	1.0	U	50.0	48.2		ug/L		96	71 - 131	3	20
1,1-Dichloropropene	1.0	U	50.0	48.2		ug/L		96	79 - 125	2	20
1,2,3-Trichlorobenzene	2.0	U	50.0	51.7		ug/L		103	69 - 129	5	20
1,2,3-Trichloropropane	1.0	U	50.0	47.7		ug/L		95	73 - 122	5	20
1,2,4-Trimethylbenzene	2.0	U	50.0	47.6		ug/L		95	76 - 124	1	20
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	45.5		ug/L		91	62 - 128	4	20
1,2-Dibromoethane	2.0	U	50.0	48.1		ug/L		96	80 - 120	1	20
1,2-Dichloroethane	1.0	U	50.0	50.1		ug/L		100	73 - 128	0	20
1,2-Dichloropropane	1.0	U	50.0	48.7		ug/L		97	78 - 122	0	20
1,3,5-Trimethylbenzene	2.0	U	50.0	47.5		ug/L		95	75 - 124	0	20
1,3-Dichloropropane	1.0	U	50.0	47.1		ug/L		94	80 - 119	0	20
2,2-Dichloropropane	2.0	U	50.0	45.6		ug/L		91	60 - 139	4	20
2-Butanone (MEK)	5.0	U	50.0	48.4		ug/L		97	56 - 143	1	20
2-Chlorotoluene	2.0	U	50.0	47.1		ug/L		94	79 - 122	0	20
2-Hexanone	2.0	U	50.0	45.1		ug/L		90	57 - 139	4	20
4-Chlorotoluene	2.0	U	50.0	46.8		ug/L		94	78 - 122	0	20
4-Methyl-2-pentanone (MIBK)	2.0	U	50.0	45.9		ug/L		92	67 - 130	4	20
Acetone	10	U	50.0	57.7		ug/L		115	39 - 160	4	20
Benzene	1.0	U	50.0	46.2		ug/L		92	79 - 120	1	20
Bromobenzene	2.0	U	50.0	48.3		ug/L		97	80 - 120	0	20
Bromochloromethane	2.0	U	50.0	51.3		ug/L		103	78 - 123	2	20
Bromodichloromethane	2.0	U	50.0	51.8		ug/L		104	79 - 125	1	20
Bromoform	1.0	U	50.0	51.3		ug/L		103	66 - 130	2	20
Bromomethane	2.0	U	50.0	50.0		ug/L		100	53 - 141	7	20
Carbon disulfide	1.0	U	50.0	48.2		ug/L		96	64 - 133	4	20
Carbon tetrachloride	1.0	U	50.0	50.4		ug/L		101	72 - 136	3	20
Chlorobenzene	1.0	U	50.0	49.1		ug/L		98	82 - 118	1	20
Chloroethane	1.0	U	50.0	45.6		ug/L		91	60 - 138	4	20
Chloroform	1.0	U	50.0	50.3		ug/L		101	79 - 124	1	20
Chloromethane	2.0	U	50.0	40.0		ug/L		80	50 - 139	4	20
cis-1,2-Dichloroethene	3.1	J	50.0	53.0		ug/L		100	78 - 123	1	20
cis-1,3-Dichloropropene	1.0	U	50.0	50.0		ug/L		100	75 - 124	2	20
Dibromochloromethane	1.0	U	50.0	51.3		ug/L		103	74 - 126	1	20
Dibromomethane	2.0	U	50.0	50.9		ug/L		102	79 - 123	1	20
Dichlorodifluoromethane	2.0	U	50.0	51.0		ug/L		102	32 - 152	6	20
Ethylbenzene	1.0	U	50.0	46.6		ug/L		93	79 - 121	1	20
Isopropylbenzene	2.0	U	50.0	47.2		ug/L		94	72 - 131	0	20
m,p-Xylenes	1.0	U	50.0	47.0		ug/L		94	80 - 121	1	20
Methyl tert-butyl ether	2.0	U	50.0	45.9		ug/L		92	71 - 124	1	20
Methylene Chloride	5.0	U	50.0	49.0		ug/L		98	74 - 124	1	20
Naphthalene	2.0	U	50.0	48.0		ug/L		96	61 - 128	3	20
n-Butylbenzene	2.0	U	50.0	49.3		ug/L		99	75 - 128	2	20
N-Propylbenzene	2.0	U	50.0	47.9		ug/L		96	76 - 126	0	20

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

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

Lab Sample ID: 280-92896-6 MSD

Matrix: Water

Analysis Batch: 287920

Client Sample ID: 6MW2003MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	1.0	U	50.0	47.9		ug/L		96	78 - 122	1	20
p-Isopropyltoluene	2.0	U	50.0	48.7		ug/L		97	77 - 127	0	20
sec-Butylbenzene	2.0	U	50.0	47.4		ug/L		95	77 - 126	2	20
Styrene	1.0	U	50.0	48.0		ug/L		96	78 - 123	0	20
tert-Butylbenzene	2.0	U	50.0	47.4		ug/L		95	78 - 124	1	20
Tetrachloroethene	1.0	U	50.0	49.1		ug/L		98	74 - 129	1	20
Toluene	1.0	U	50.0	45.9		ug/L		92	80 - 121	1	20
trans-1,2-Dichloroethene	1.0	U	50.0	48.6		ug/L		97	75 - 124	2	20
trans-1,3-Dichloropropene	1.0	U	50.0	48.9		ug/L		98	73 - 127	1	20
Trichloroethene	1.0	U	50.0	50.1		ug/L		100	79 - 123	2	20
Trichlorofluoromethane	2.0	U	50.0	54.3		ug/L		109	65 - 141	2	20
Vinyl chloride	2.3	J	50.0	47.7		ug/L		91	58 - 137	6	20
Xylenes (total)	5.0	U	100	94.9		ug/L		95	79 - 121	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		81 - 118
4-Bromofluorobenzene (Surr)	91		85 - 114
Dibromofluoromethane (Surr)	104		80 - 119
Toluene-d8 (Surr)	96		89 - 112

Lab Sample ID: MB 160-288297/7

Matrix: Water

Analysis Batch: 288297

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	2.0	U	5.0	0.25	ug/L			01/19/17 16:57	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			01/19/17 16:57	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			01/19/17 16:57	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			01/19/17 16:57	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			01/19/17 16:57	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			01/19/17 16:57	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			01/19/17 16:57	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			01/19/17 16:57	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			01/19/17 16:57	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			01/19/17 16:57	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			01/19/17 16:57	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			01/19/17 16:57	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			01/19/17 16:57	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			01/19/17 16:57	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			01/19/17 16:57	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			01/19/17 16:57	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			01/19/17 16:57	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			01/19/17 16:57	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			01/19/17 16:57	1
2-Hexanone	2.0	U	20	0.59	ug/L			01/19/17 16:57	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			01/19/17 16:57	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			01/19/17 16:57	1
Acetone	10	U	20	6.7	ug/L			01/19/17 16:57	1

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

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

Lab Sample ID: MB 160-288297/7

Matrix: Water

Analysis Batch: 288297

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	5.0	0.25	ug/L			01/19/17 16:57	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			01/19/17 16:57	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			01/19/17 16:57	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			01/19/17 16:57	1
Bromoform	1.0	U	5.0	0.37	ug/L			01/19/17 16:57	1
Bromomethane	2.0	U	10	0.40	ug/L			01/19/17 16:57	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			01/19/17 16:57	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			01/19/17 16:57	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			01/19/17 16:57	1
Chloroethane	1.0	U	10	0.38	ug/L			01/19/17 16:57	1
Chloroform	1.0	U	5.0	0.15	ug/L			01/19/17 16:57	1
Chloromethane	2.0	U	10	0.55	ug/L			01/19/17 16:57	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			01/19/17 16:57	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			01/19/17 16:57	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			01/19/17 16:57	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			01/19/17 16:57	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			01/19/17 16:57	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			01/19/17 16:57	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			01/19/17 16:57	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			01/19/17 16:57	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			01/19/17 16:57	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			01/19/17 16:57	1
Naphthalene	2.0	U	5.0	0.85	ug/L			01/19/17 16:57	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			01/19/17 16:57	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			01/19/17 16:57	1
o-Xylene	1.0	U	5.0	0.32	ug/L			01/19/17 16:57	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			01/19/17 16:57	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/19/17 16:57	1
Styrene	1.0	U	5.0	0.35	ug/L			01/19/17 16:57	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			01/19/17 16:57	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			01/19/17 16:57	1
Toluene	1.0	U	5.0	1.0	ug/L			01/19/17 16:57	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			01/19/17 16:57	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			01/19/17 16:57	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			01/19/17 16:57	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			01/19/17 16:57	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			01/19/17 16:57	1
Xylenes (total)	5.0	U	10	0.85	ug/L			01/19/17 16:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		81 - 118		01/19/17 16:57	1
4-Bromofluorobenzene (Surr)	90		85 - 114		01/19/17 16:57	1
Dibromofluoromethane (Surr)	105		80 - 119		01/19/17 16:57	1
Toluene-d8 (Surr)	100		89 - 112		01/19/17 16:57	1

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

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

Lab Sample ID: LCS 160-288297/4

Matrix: Water

Analysis Batch: 288297

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	48.3		ug/L		97	78 - 124
1,1,1-Trichloroethane	50.0	50.5		ug/L		101	74 - 131
1,1,2,2-Tetrachloroethane	50.0	48.4		ug/L		97	71 - 121
1,1,2-Trichloroethane	50.0	48.1		ug/L		96	80 - 119
1,1-Dichloroethane	50.0	48.3		ug/L		97	77 - 125
1,1-Dichloroethene	50.0	50.0		ug/L		100	71 - 131
1,1-Dichloropropene	50.0	48.9		ug/L		98	79 - 125
1,2,3-Trichlorobenzene	50.0	51.7		ug/L		103	69 - 129
1,2,3-Trichloropropane	50.0	50.2		ug/L		100	73 - 122
1,2,4-Trimethylbenzene	50.0	48.2		ug/L		96	76 - 124
1,2-Dibromo-3-Chloropropane	50.0	52.3		ug/L		105	62 - 128
1,2-Dibromoethane	50.0	49.5		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	49.9		ug/L		100	73 - 128
1,2-Dichloropropane	50.0	49.2		ug/L		98	78 - 122
1,3,5-Trimethylbenzene	50.0	47.7		ug/L		95	75 - 124
1,3-Dichloropropane	50.0	48.2		ug/L		96	80 - 119
2,2-Dichloropropane	50.0	46.2		ug/L		92	60 - 139
2-Butanone (MEK)	50.0	55.4		ug/L		111	56 - 143
2-Chlorotoluene	50.0	47.1		ug/L		94	79 - 122
2-Hexanone	50.0	52.3		ug/L		105	57 - 139
4-Chlorotoluene	50.0	46.8		ug/L		94	78 - 122
4-Methyl-2-pentanone (MIBK)	50.0	51.4		ug/L		103	67 - 130
Acetone	50.0	59.4		ug/L		119	39 - 160
Benzene	50.0	45.8		ug/L		92	79 - 120
Bromobenzene	50.0	47.0		ug/L		94	80 - 120
Bromochloromethane	50.0	49.8		ug/L		100	78 - 123
Bromodichloromethane	50.0	51.0		ug/L		102	79 - 125
Bromoform	50.0	53.8		ug/L		108	66 - 130
Bromomethane	50.0	60.1		ug/L		120	53 - 141
Carbon disulfide	50.0	50.0		ug/L		100	64 - 133
Carbon tetrachloride	50.0	51.4		ug/L		103	72 - 136
Chlorobenzene	50.0	48.0		ug/L		96	82 - 118
Chloroethane	50.0	52.6		ug/L		105	60 - 138
Chloroform	50.0	48.3		ug/L		97	79 - 124
Chloromethane	50.0	51.7		ug/L		103	50 - 139
cis-1,2-Dichloroethene	50.0	47.7		ug/L		95	78 - 123
cis-1,3-Dichloropropene	50.0	50.4		ug/L		101	75 - 124
Dibromochloromethane	50.0	51.1		ug/L		102	74 - 126
Dibromomethane	50.0	50.3		ug/L		101	79 - 123
Dichlorodifluoromethane	50.0	58.0		ug/L		116	32 - 152
Ethylbenzene	50.0	45.4		ug/L		91	79 - 121
Isopropylbenzene	50.0	47.1		ug/L		94	72 - 131
m,p-Xylenes	50.0	46.5		ug/L		93	80 - 121
Methyl tert-butyl ether	50.0	46.8		ug/L		94	71 - 124
Methylene Chloride	50.0	48.8		ug/L		98	74 - 124
Naphthalene	50.0	53.6		ug/L		107	61 - 128
n-Butylbenzene	50.0	49.9		ug/L		100	75 - 128
N-Propylbenzene	50.0	48.2		ug/L		96	76 - 126

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

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

Lab Sample ID: LCS 160-288297/4

Matrix: Water

Analysis Batch: 288297

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	50.0	47.3		ug/L		95	78 - 122
p-Isopropyltoluene	50.0	48.8		ug/L		98	77 - 127
sec-Butylbenzene	50.0	49.2		ug/L		98	77 - 126
Styrene	50.0	47.4		ug/L		95	78 - 123
tert-Butylbenzene	50.0	47.7		ug/L		95	78 - 124
Tetrachloroethene	50.0	48.0		ug/L		96	74 - 129
Toluene	50.0	45.3		ug/L		91	80 - 121
trans-1,2-Dichloroethene	50.0	48.8		ug/L		98	75 - 124
trans-1,3-Dichloropropene	50.0	49.0		ug/L		98	73 - 127
Trichloroethene	50.0	49.9		ug/L		100	79 - 123
Trichlorofluoromethane	50.0	58.0		ug/L		116	65 - 141
Vinyl chloride	50.0	54.8		ug/L		110	58 - 137
Xylenes (total)	100	93.8		ug/L		94	79 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		81 - 118
4-Bromofluorobenzene (Surr)	96		85 - 114
Dibromofluoromethane (Surr)	104		80 - 119
Toluene-d8 (Surr)	101		89 - 112

Lab Sample ID: LCSD 160-288297/5

Matrix: Water

Analysis Batch: 288297

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	50.7		ug/L		101	78 - 124	5	20
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	74 - 131	1	20
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/L		100	71 - 121	4	20
1,1,2-Trichloroethane	50.0	51.1		ug/L		102	80 - 119	6	20
1,1-Dichloroethane	50.0	49.4		ug/L		99	77 - 125	2	20
1,1-Dichloroethene	50.0	49.8		ug/L		100	71 - 131	0	20
1,1-Dichloropropene	50.0	50.2		ug/L		100	79 - 125	2	20
1,2,3-Trichlorobenzene	50.0	53.5		ug/L		107	69 - 129	3	20
1,2,3-Trichloropropane	50.0	52.7		ug/L		105	73 - 122	5	20
1,2,4-Trimethylbenzene	50.0	49.8		ug/L		100	76 - 124	3	20
1,2-Dibromo-3-Chloropropane	50.0	53.1		ug/L		106	62 - 128	1	20
1,2-Dibromoethane	50.0	51.2		ug/L		102	80 - 120	3	20
1,2-Dichloroethane	50.0	51.5		ug/L		103	73 - 128	3	20
1,2-Dichloropropane	50.0	50.5		ug/L		101	78 - 122	2	20
1,3,5-Trimethylbenzene	50.0	49.4		ug/L		99	75 - 124	4	20
1,3-Dichloropropane	50.0	50.9		ug/L		102	80 - 119	6	20
2,2-Dichloropropane	50.0	47.7		ug/L		95	60 - 139	3	20
2-Butanone (MEK)	50.0	58.0		ug/L		116	56 - 143	5	20
2-Chlorotoluene	50.0	49.1		ug/L		98	79 - 122	4	20
2-Hexanone	50.0	56.7		ug/L		113	57 - 139	8	20
4-Chlorotoluene	50.0	48.7		ug/L		97	78 - 122	4	20
4-Methyl-2-pentanone (MIBK)	50.0	55.3		ug/L		111	67 - 130	7	20
Acetone	50.0	62.2		ug/L		124	39 - 160	5	20

TestAmerica Denver

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

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

Lab Sample ID: LCSD 160-288297/5

Matrix: Water

Analysis Batch: 288297

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	46.9		ug/L		94	79 - 120	2	20
Bromobenzene	50.0	49.3		ug/L		99	80 - 120	5	20
Bromochloromethane	50.0	51.3		ug/L		103	78 - 123	3	20
Bromodichloromethane	50.0	52.2		ug/L		104	79 - 125	2	20
Bromoform	50.0	57.2		ug/L		114	66 - 130	6	20
Bromomethane	50.0	58.9		ug/L		118	53 - 141	2	20
Carbon disulfide	50.0	50.1		ug/L		100	64 - 133	0	20
Carbon tetrachloride	50.0	52.4		ug/L		105	72 - 136	2	20
Chlorobenzene	50.0	50.1		ug/L		100	82 - 118	4	20
Chloroethane	50.0	52.4		ug/L		105	60 - 138	1	20
Chloroform	50.0	49.6		ug/L		99	79 - 124	3	20
Chloromethane	50.0	51.8		ug/L		104	50 - 139	0	20
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	78 - 123	3	20
cis-1,3-Dichloropropene	50.0	51.7		ug/L		103	75 - 124	2	20
Dibromochloromethane	50.0	53.6		ug/L		107	74 - 126	5	20
Dibromomethane	50.0	53.8		ug/L		108	79 - 123	7	20
Dichlorodifluoromethane	50.0	56.1		ug/L		112	32 - 152	3	20
Ethylbenzene	50.0	47.8		ug/L		96	79 - 121	5	20
Isopropylbenzene	50.0	49.4		ug/L		99	72 - 131	5	20
m,p-Xylenes	50.0	48.8		ug/L		98	80 - 121	5	20
Methyl tert-butyl ether	50.0	48.5		ug/L		97	71 - 124	4	20
Methylene Chloride	50.0	49.3		ug/L		99	74 - 124	1	20
Naphthalene	50.0	54.4		ug/L		109	61 - 128	2	20
n-Butylbenzene	50.0	50.9		ug/L		102	75 - 128	2	20
N-Propylbenzene	50.0	49.9		ug/L		100	76 - 126	3	20
o-Xylene	50.0	49.6		ug/L		99	78 - 122	5	20
p-Isopropyltoluene	50.0	50.6		ug/L		101	77 - 127	4	20
sec-Butylbenzene	50.0	50.9		ug/L		102	77 - 126	3	20
Styrene	50.0	49.2		ug/L		98	78 - 123	4	20
tert-Butylbenzene	50.0	49.5		ug/L		99	78 - 124	4	20
Tetrachloroethene	50.0	50.6		ug/L		101	74 - 129	5	20
Toluene	50.0	47.6		ug/L		95	80 - 121	5	20
trans-1,2-Dichloroethene	50.0	49.2		ug/L		98	75 - 124	1	20
trans-1,3-Dichloropropene	50.0	51.7		ug/L		103	73 - 127	5	20
Trichloroethene	50.0	50.7		ug/L		101	79 - 123	1	20
Trichlorofluoromethane	50.0	56.8		ug/L		114	65 - 141	2	20
Vinyl chloride	50.0	54.0		ug/L		108	58 - 137	1	20
Xylenes (total)	100	98.4		ug/L		98	79 - 121	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		81 - 118
4-Bromofluorobenzene (Surr)	97		85 - 114
Dibromofluoromethane (Surr)	105		80 - 119
Toluene-d8 (Surr)	104		89 - 112

QC Sample Results

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-358691/39
Matrix: Water
Analysis Batch: 358691

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	0.213	J	1.0	0.16	mg/L			01/12/17 19:47	1

Lab Sample ID: LCS 280-358691/38
Matrix: Water
Analysis Batch: 358691

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Quad	25.0	24.5		mg/L		98	88 - 112

Lab Sample ID: 280-92896-6 MS
Matrix: Water
Analysis Batch: 358691

Client Sample ID: 6MW2003MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Quad	8.0		25.0	32.4		mg/L		98	88 - 112

Lab Sample ID: 280-92896-6 MSD
Matrix: Water
Analysis Batch: 358691

Client Sample ID: 6MW2003MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Quad	8.0		25.0	32.8		mg/L		99	88 - 112	1	15

QC Association Summary

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

GC/MS VOA

Analysis Batch: 287920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-92896-1	6MW2403	Total/NA	Water	8260C DOD	
280-92896-2	6MW2203	Total/NA	Water	8260C DOD	
280-92896-3	6MW2303	Total/NA	Water	8260C DOD	
280-92896-5	6MW2503	Total/NA	Water	8260C DOD	
280-92896-6	6MW2003	Total/NA	Water	8260C DOD	
280-92896-7	6MW2003D	Total/NA	Water	8260C DOD	
280-92896-8	TB04	Total/NA	Water	8260C DOD	
MB 160-287920/7	Method Blank	Total/NA	Water	8260C DOD	
LCS 160-287920/4	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 160-287920/5	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
280-92896-6 MS	6MW2003MS	Total/NA	Water	8260C DOD	
280-92896-6 MSD	6MW2003MSD	Total/NA	Water	8260C DOD	

Analysis Batch: 288297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-92896-4 - RA	6MW2603	Total/NA	Water	8260C DOD	
MB 160-288297/7	Method Blank	Total/NA	Water	8260C DOD	
LCS 160-288297/4	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 160-288297/5	Lab Control Sample Dup	Total/NA	Water	8260C DOD	

General Chemistry

Analysis Batch: 358691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-92896-1	6MW2403	Total/NA	Water	9060A	
280-92896-2	6MW2203	Total/NA	Water	9060A	
280-92896-3	6MW2303	Total/NA	Water	9060A	
280-92896-4	6MW2603	Total/NA	Water	9060A	
280-92896-5	6MW2503	Total/NA	Water	9060A	
280-92896-6	6MW2003	Total/NA	Water	9060A	
280-92896-7	6MW2003D	Total/NA	Water	9060A	
MB 280-358691/39	Method Blank	Total/NA	Water	9060A	
LCS 280-358691/38	Lab Control Sample	Total/NA	Water	9060A	
280-92896-6 MS	6MW2003MS	Total/NA	Water	9060A	
280-92896-6 MSD	6MW2003MSD	Total/NA	Water	9060A	

Lab Chronicle

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2403

Date Collected: 01/09/17 10:50

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	287920	01/16/17 22:04	SMR	TAL SL
Total/NA	Analysis	9060A		1			358691	01/12/17 23:13	CCJ	TAL DEN

Client Sample ID: 6MW2203

Date Collected: 01/09/17 11:50

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	287920	01/16/17 22:29	SMR	TAL SL
Total/NA	Analysis	9060A		7			358691	01/12/17 23:38	CCJ	TAL DEN

Client Sample ID: 6MW2303

Date Collected: 01/09/17 12:45

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	287920	01/16/17 22:54	SMR	TAL SL
Total/NA	Analysis	9060A		1			358691	01/13/17 00:27	CCJ	TAL DEN

Client Sample ID: 6MW2603

Date Collected: 01/09/17 13:30

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD	RA	1	5 mL	5 mL	288297	01/19/17 18:57	JDH	TAL SL
Total/NA	Analysis	9060A		1			358691	01/13/17 00:42	CCJ	TAL DEN

Client Sample ID: 6MW2503

Date Collected: 01/09/17 14:15

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	287920	01/16/17 23:44	SMR	TAL SL
Total/NA	Analysis	9060A		1			358691	01/13/17 00:59	CCJ	TAL DEN

Client Sample ID: 6MW2003

Date Collected: 01/09/17 15:00

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	287920	01/16/17 20:24	SMR	TAL SL

TestAmerica Denver

Lab Chronicle

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Client Sample ID: 6MW2003

Date Collected: 01/09/17 15:00

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1			358691	01/13/17 01:13	CCJ	TAL DEN

Client Sample ID: 6MW2003D

Date Collected: 01/09/17 15:05

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	287920	01/17/17 00:08	SMR	TAL SL
Total/NA	Analysis	9060A		1			358691	01/13/17 01:59	CCJ	TAL DEN

Client Sample ID: TB04

Date Collected: 01/09/17 00:00

Date Received: 01/11/17 10:00

Lab Sample ID: 280-92896-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C DOD		1	5 mL	5 mL	287920	01/16/17 19:57	SMR	TAL SL

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Certification Summary

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Laboratory: TestAmerica Denver

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad
Connecticut	State Program	1	PH-0686
			09-30-18

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad
Florida	NELAP	4	E87667
			06-30-17

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad
New Hampshire	NELAP	1	205310
			04-28-17
New York	NELAP	2	11964
			04-01-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad
Pennsylvania	NELAP	3	68-00664
			07-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
9060A		Water	Total Organic Carbon - Quad

Laboratory: TestAmerica St. Louis

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-17 *
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542017-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17 *
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Denver

Certification Summary

Client: Leidos, Inc.

Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-14-0016	01-09-17 *
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17 *

* Certification renewal pending - certification considered valid.

TestAmerica Denver

Method Summary

Client: Leidos, Inc.

Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	TAL SL
9060A	Organic Carbon, Total (TOC)	SW846	TAL DEN

Protocol References:

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

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Leidos, Inc.
Project/Site: Schenectady ANGB, NY

TestAmerica Job ID: 280-92896-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-92896-1	6MW2403	Water	01/09/17 10:50	01/11/17 10:00
280-92896-2	6MW2203	Water	01/09/17 11:50	01/11/17 10:00
280-92896-3	6MW2303	Water	01/09/17 12:45	01/11/17 10:00
280-92896-4	6MW2603	Water	01/09/17 13:30	01/11/17 10:00
280-92896-5	6MW2503	Water	01/09/17 14:15	01/11/17 10:00
280-92896-6	6MW2003	Water	01/09/17 15:00	01/11/17 10:00
280-92896-7	6MW2003D	Water	01/09/17 15:05	01/11/17 10:00
280-92896-8	TB04	Water	01/09/17 00:00	01/11/17 10:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Instrument ID: VMSX Analysis Batch Number: 279985Lab Sample ID: IC 160-279985/7 Client Sample ID: _____Date Analyzed: 11/18/16 13:18 Lab File ID: XICL4407.D GC Column: RTXVMS30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	9.56	Missed Peak	buettnera	11/21/16 08:47

Lab Sample ID: IC 160-279985/8 Client Sample ID: _____Date Analyzed: 11/18/16 13:43 Lab File ID: XICL4408.D GC Column: RTXVMS30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	9.56	Missed Peak	buettnera	11/21/16 08:47

Lab Sample ID: IC 160-279985/9 Client Sample ID: _____Date Analyzed: 11/18/16 14:07 Lab File ID: XICL4409.D GC Column: RTXVMS30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	9.56	Missed Peak	buettnera	11/21/16 08:46

Lab Sample ID: ICV 160-279985/14 Client Sample ID: _____Date Analyzed: 11/18/16 16:09 Lab File ID: XICV4414.D GC Column: RTXVMS30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	9.56	Missed Peak	buettnera	11/21/16 08:57

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Instrument ID: VMSX Analysis Batch Number: 287920Lab Sample ID: CCV 160-287920/3 Client Sample ID: _____Date Analyzed: 01/16/17 17:43 Lab File ID: XCCV5169.D GC Column: RTXVMS30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	9.55	Missed Peak	rhoadess	01/24/17 15:09
Ethyl methacrylate	11.10	Missed Peak	rhoadess	01/24/17 15:09

Lab Sample ID: CCVC 160-287920/19 Client Sample ID: _____Date Analyzed: 01/17/17 00:34 Lab File ID: XCCV5185.D GC Column: RTXVMS30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	9.56	Missed Peak	rhoadess	01/24/17 15:19
Ethyl methacrylate	11.10	Missed Peak	rhoadess	01/24/17 15:19

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Instrument ID: VMSX Analysis Batch Number: 288297Lab Sample ID: CCV 160-288297/3 Client Sample ID: _____Date Analyzed: 01/19/17 14:45 Lab File ID: XCCV5232.D GC Column: RTXVMS30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	9.55	Missed Peak	hannj	01/23/17 14:17

Lab Sample ID: CCVC 160-288297/20 Client Sample ID: _____Date Analyzed: 01/19/17 22:41 Lab File ID: XCCV5249.D GC Column: RTXVMS30 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	9.56	Missed Peak	hannj	01/23/17 14:20

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
TOC ICV Std_00029	01/31/17		Ricca, Lot 1601d96		(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm
TOC LCS Std_00034	06/30/18		Ultra Scientific, Lot CP-2362		(Purchased Reagent)		Total Organic Carbon - Quad	1001 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260 NewWkMix_00192	11/20/16	11/13/16	Methanol, Lot DP461	10 mL	8260_2_CLEVE_00046	100 uL	2-Chloroethyl vinyl ether	25 ug/mL
					8260Custom1_00044	125 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	25 ug/mL
							n-Nonyl Aldehyde	25 ug/mL
					8260Cyclohexa_00046	100 uL	Cyclohexanone	250 ug/mL
					8260Gases_00182	100 uL	Bromomethane	25 ug/mL
							Butadiene	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Dichlorofluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					8260Ketones_00046	20 uL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
					8260MegaMix_00046	100 uL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	500 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							2-Methyl-2-propanol	250 ug/mL
							3-Chloro-1-propene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Acrylonitrile	250 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Cyclohexane	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethyl ether	25 ug/mL
							Ethyl methacrylate	25 ug/mL
							Ethylbenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexane	25 ug/mL
							Iodomethane	25 ug/mL
							Isobutyl alcohol	625 ug/mL
							Isopropylbenzene	25 ug/mL
							m,p-Xylenes	25 ug/mL
							Methyl acetate	125 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylcyclohexane	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							n-Heptane	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
					tert-Butylbenzene	25 ug/mL		
					Tetrachloroethene	25 ug/mL		
					Tetrahydrofuran	50 ug/mL		
					Toluene	25 ug/mL		
					trans-1,2-Dichloroethene	25 ug/mL		
					trans-1,3-Dichloropropene	25 ug/mL		
					trans-1,4-Dichloro-2-butene	25 ug/mL		
					Trichloroethene	25 ug/mL		
					8260VinAcetat_00048	50 uL	Vinyl acetate	25 ug/mL
					Acrolein_00039	62.5 uL	Acrolein	125 ug/mL
					Adds(A)_2016_00008	100 uL	1,2,3-Trimethylbenzene	25 ug/mL
							1,3,5-Trichlorobenzene	25 ug/mL
							1-Chlorohexane	25 ug/mL
							2-Chloro-1,3-butadiene	25 ug/mL
							2-Nitropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl chloride	25 ug/mL
							Isooctane	25 ug/mL
							Isopropyl alcohol	250 ug/mL
							Methacrylonitrile	250 ug/mL
							n-Butanol	625 ug/mL
					Adds(B) 2016_00002	100 uL	Ethyl acetate	50 ug/mL
							Ethyl acrylate	25 ug/mL
							Methyl methacrylate	50 ug/mL
							n-Butyl acetate	25 ug/mL
					Polar Add._00037	100 uL	Acetonitrile	250 ug/mL
							Ethanol	1000 ug/mL
							Isopropyl ether	25 ug/mL
							Propionitrile	250 ug/mL
							Tert-amyl methyl ether	25 ug/mL
							Tert-butyl ethyl ether	25 ug/mL
.8260 2_CLEVE_00046	12/13/16		Restek, Lot A0115628		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.8260Custom1_00044	12/06/16		Accustandard, Lot 215101095-01		(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00046	12/13/16		Restek, Lot A0116621		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.8260Gases_00182	11/20/16		Restek, Lot A0118719		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260Ketones_00046	12/13/16		Restek, Lot A0115554		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.8260MegaMix_00046	12/13/16		Restek, Lot A0118177		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m,p-Xylenes	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VinAcetat_00048	11/23/16		Restek, Lot A0120164		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00039	11/30/16		Restek, Lot A0121394		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A)_2016_00008	11/30/16		Restek, Lot A0116133		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.Adds(B)_2016_00002	11/30/16		Restek, Lot A0116077		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Polar Add._00037	12/13/16		Restek, Lot A0114666		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Ethanol	100000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
8260 NewWkMix_00202	01/22/17	01/15/17	Methanol, Lot DQ538	10 mL	8260Gases_00191	100 uL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					8260Ketones_00048	20 uL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
					8260MegaMix_00048	100 uL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Isopropylbenzene	25 ug/mL
							m,p-Xylenes	25 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
.8260Gases_00191	01/22/17		Restek, Lot A0118719		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260Ketones_00048	02/08/17		Restek, Lot A0115554		(Purchased Reagent)		Vinyl chloride	2500 ug/mL
							2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.8260MegaMix_00048	02/08/17		Restek, Lot A0118177		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m,p-Xylenes	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
8260 Surr 25_00067	12/01/16	11/01/16	Methanol, Lot DP461	25 mL	8260_Surr_00041	250 uL	1,2-Dichloroethane-d4 (Surr)	25 ug/mL
							4-Bromofluorobenzene (Surr)	25 ug/mL
							Dibromofluoromethane (Surr)	25 ug/mL
							Toluene-d8 (Surr)	25 ug/mL
.8260_Surr_00041	12/01/16		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260 Surr 25_00070	02/03/17	01/03/17	Methanol, Lot DP461	25 mL	8260_Surr_00043	0.25 mL	1,2-Dichloroethane-d4 (Surr)	25 ug/mL
							4-Bromofluorobenzene (Surr)	25 ug/mL
							Dibromofluoromethane (Surr)	25 ug/mL
							Toluene-d8 (Surr)	25 ug/mL
.8260_Surr_00043	02/03/17		Restek, Lot A0120212		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260_Surr_00041	12/01/16		Restek, Lot A0115812		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
8260NewHiWrk_00170	11/20/16	11/13/16	Methanol, Lot DP461	1 mL	8260_2_CLEVE_00046	50 uL	2-Chloroethyl vinyl ether	125 ug/mL
					8260Custom1_00044	62.5 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	125 ug/mL
							n-Nonyl Aldehyde	125 ug/mL
					8260Cyclohexa_00046	50 uL	Cyclohexanone	1250 ug/mL
					8260Gases_00182	50 uL	Bromomethane	125 ug/mL
							Butadiene	125 ug/mL
							Chloroethane	125 ug/mL
							Chloromethane	125 ug/mL
							Dichlorodifluoromethane	125 ug/mL
							Dichlorofluoromethane	125 ug/mL
							Trichlorofluoromethane	125 ug/mL
							Vinyl chloride	125 ug/mL
					8260Ketones_00046	10 uL	2-Butanone (MEK)	125 ug/mL
							2-Hexanone	125 ug/mL
							4-Methyl-2-pentanone (MIBK)	125 ug/mL
							Acetone	125 ug/mL
					8260MegaMix_00046	50 uL	1,1,1,2-Tetrachloroethane	125 ug/mL
							1,1,1-Trichloroethane	125 ug/mL
							1,1,2,2-Tetrachloroethane	125 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	125 ug/mL
							1,1,2-Trichloroethane	125 ug/mL
							1,1-Dichloroethane	125 ug/mL
							1,1-Dichloroethene	125 ug/mL
							1,1-Dichloropropene	125 ug/mL
							1,2,3-Trichlorobenzene	125 ug/mL
							1,2,3-Trichloropropane	125 ug/mL
							1,2,4-Trichlorobenzene	125 ug/mL
							1,2,4-Trimethylbenzene	125 ug/mL
							1,2-Dibromo-3-Chloropropane	125 ug/mL
							1,2-Dibromoethane	125 ug/mL
							1,2-Dichlorobenzene	125 ug/mL
							1,2-Dichloroethane	125 ug/mL
							1,2-Dichloropropane	125 ug/mL
							1,3,5-Trimethylbenzene	125 ug/mL
							1,3-Dichlorobenzene	125 ug/mL
							1,3-Dichloropropane	125 ug/mL
							1,4-Dichlorobenzene	125 ug/mL
							1,4-Dioxane	2500 ug/mL
							2,2-Dichloropropane	125 ug/mL
							2-Chlorotoluene	125 ug/mL
							2-Methyl-2-propanol	1250 ug/mL
							3-Chloro-1-propene	125 ug/mL
							4-Chlorotoluene	125 ug/mL
							Acrylonitrile	1250 ug/mL
							Benzene	125 ug/mL
							Bromobenzene	125 ug/mL
							Bromochloromethane	125 ug/mL
							Bromodichloromethane	125 ug/mL
							Bromoform	125 ug/mL
							Carbon disulfide	125 ug/mL
							Carbon tetrachloride	125 ug/mL
							Chlorobenzene	125 ug/mL
							Chloroform	125 ug/mL
							cis-1,2-Dichloroethene	125 ug/mL
							cis-1,3-Dichloropropene	125 ug/mL
							Cyclohexane	125 ug/mL
							Dibromochloromethane	125 ug/mL
							Dibromomethane	125 ug/mL
							Ethyl ether	125 ug/mL
							Ethyl methacrylate	125 ug/mL
							Ethylbenzene	125 ug/mL
							Hexachlorobutadiene	125 ug/mL
							Hexane	125 ug/mL
							Iodomethane	125 ug/mL
							Isobutyl alcohol	3125 ug/mL
							Isopropylbenzene	125 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m,p-Xylenes	125 ug/mL
							Methyl acetate	625 ug/mL
							Methyl tert-butyl ether	125 ug/mL
							Methylcyclohexane	125 ug/mL
							Methylene Chloride	125 ug/mL
							n-Butylbenzene	125 ug/mL
							n-Heptane	125 ug/mL
							N-Propylbenzene	125 ug/mL
							Naphthalene	125 ug/mL
							o-Xylene	125 ug/mL
							p-Isopropyltoluene	125 ug/mL
							sec-Butylbenzene	125 ug/mL
							Styrene	125 ug/mL
							tert-Butylbenzene	125 ug/mL
							Tetrachloroethene	125 ug/mL
							Tetrahydrofuran	250 ug/mL
							Toluene	125 ug/mL
							trans-1,2-Dichloroethene	125 ug/mL
							trans-1,3-Dichloropropene	125 ug/mL
							trans-1,4-Dichloro-2-butene	125 ug/mL
							Trichloroethene	125 ug/mL
					8260VinAcetat_00048	25 uL	Vinyl acetate	125 ug/mL
					Acrolein_00039	31.25 uL	Acrolein	625 ug/mL
					Adds(A)_2016_00008	50 uL	1,2,3-Trimethylbenzene	125 ug/mL
							1,3,5-Trichlorobenzene	125 ug/mL
							1-Chlorohexane	125 ug/mL
							2-Chloro-1,3-butadiene	125 ug/mL
							2-Nitropropane	250 ug/mL
							Benzyl chloride	125 ug/mL
							Isooctane	125 ug/mL
							Isopropyl alcohol	1250 ug/mL
							Methacrylonitrile	1250 ug/mL
							n-Butanol	3125 ug/mL
					Adds(B)_2016_00002	50 uL	Ethyl acetate	250 ug/mL
							Ethyl acrylate	125 ug/mL
							Methyl methacrylate	250 ug/mL
							n-Butyl acetate	125 ug/mL
					Polar Add._00037	50 uL	Acetonitrile	1250 ug/mL
							Ethanol	5000 ug/mL
							Isopropyl ether	125 ug/mL
							Propionitrile	1250 ug/mL
							Tert-amyl methyl ether	125 ug/mL
							Tert-butyl ethyl ether	125 ug/mL
.8260_2_CLEVE_00046	12/13/16	Restek, Lot A0115628			(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.8260Custom1_00044	12/06/16	Accustandard, Lot 215101095-01			(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00046	12/13/16	Restek, Lot A0116621			(Purchased Reagent)		Cyclohexanone	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260Gases_00182	11/20/16		Restek, Lot A0118719		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
.8260Ketones_00046	12/13/16		Restek, Lot A0115554		(Purchased Reagent)		Vinyl chloride	2500 ug/mL
							2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
.8260MegaMix_00046	12/13/16		Restek, Lot A0118177		(Purchased Reagent)		Acetone	12500 ug/mL
							1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m,p-Xylenes	2500 ug/mL
							Methyl acetate	12500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.8260VinAcetat 00048	11/23/16		Restek, Lot A0120164		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein 00039	11/30/16		Restek, Lot A0121394		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A) 2016_00008	11/30/16		Restek, Lot A0116133		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis

Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.Adds (B) 2016_00002	11/30/16	Restek, Lot A0116077			(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Polar Add._00037	12/13/16	Restek, Lot A0114666			(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Ethanol	100000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
8260NewICVMix_00183	11/20/16	11/13/16	Methanol, Lot DP461	5 mL	8260GasesSS_00183	50 uL	Bromomethane	25 ug/mL
							Chloroethane	25 ug/mL
							Chloromethane	25 ug/mL
							Dichlorodifluoromethane	25 ug/mL
							Trichlorofluoromethane	25 ug/mL
							Vinyl chloride	25 ug/mL
					8260KetonesSS_00045	10 uL	2-Butanone (MEK)	25 ug/mL
							2-Hexanone	25 ug/mL
							4-Methyl-2-pentanone (MIBK)	25 ug/mL
							Acetone	25 ug/mL
					8260MegaMixSS_00045	50 uL	1,1,1,2-Tetrachloroethane	25 ug/mL
							1,1,1-Trichloroethane	25 ug/mL
							1,1,2,2-Tetrachloroethane	25 ug/mL
							1,1,2-Trichloroethane	25 ug/mL
							1,1-Dichloroethane	25 ug/mL
							1,1-Dichloroethene	25 ug/mL
							1,1-Dichloropropene	25 ug/mL
							1,2,3-Trichlorobenzene	25 ug/mL
							1,2,3-Trichloropropane	25 ug/mL
							1,2,4-Trimethylbenzene	25 ug/mL
							1,2-Dibromo-3-Chloropropane	25 ug/mL
							1,2-Dibromoethane	25 ug/mL
							1,2-Dichloroethane	25 ug/mL
							1,2-Dichloropropane	25 ug/mL
							1,3,5-Trimethylbenzene	25 ug/mL
							1,3-Dichloropropane	25 ug/mL
							2,2-Dichloropropane	25 ug/mL
							2-Chlorotoluene	25 ug/mL
							4-Chlorotoluene	25 ug/mL
							Benzene	25 ug/mL
							Bromobenzene	25 ug/mL
							Bromochloromethane	25 ug/mL
							Bromodichloromethane	25 ug/mL
							Bromoform	25 ug/mL
							Carbon disulfide	25 ug/mL
							Carbon tetrachloride	25 ug/mL
							Chlorobenzene	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	25 ug/mL
							cis-1,2-Dichloroethene	25 ug/mL
							cis-1,3-Dichloropropene	25 ug/mL
							Dibromochloromethane	25 ug/mL
							Dibromomethane	25 ug/mL
							Ethylbenzene	25 ug/mL
							Isopropylbenzene	25 ug/mL
							m,p-Xylenes	25 ug/mL
							Methyl tert-butyl ether	25 ug/mL
							Methylene Chloride	25 ug/mL
							n-Butylbenzene	25 ug/mL
							N-Propylbenzene	25 ug/mL
							Naphthalene	25 ug/mL
							o-Xylene	25 ug/mL
							p-Isopropyltoluene	25 ug/mL
							sec-Butylbenzene	25 ug/mL
							Styrene	25 ug/mL
							tert-Butylbenzene	25 ug/mL
							Tetrachloroethene	25 ug/mL
							Toluene	25 ug/mL
							trans-1,2-Dichloroethene	25 ug/mL
							trans-1,3-Dichloropropene	25 ug/mL
							Trichloroethene	25 ug/mL
.8260GasesSS_00183	11/20/16		Restek, Lot A0115484		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.8260KetonesSS_00045	12/13/16		Restek, Lot A0118013		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.8260MegaMixSS_00045	12/13/16		Restek, Lot A0120604		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromochloromethane	2500 ug/mL
							Bromodichloromethane	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromochloromethane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m,p-Xylenes	2500 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							p-Isopropyltoluene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL
I.S. Working_00140	11/23/16	11/05/16	Methanol, Lot DP461	50 mL	8260 IS(2014)_00033	500 uL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene	25 ug/mL
.8260 IS(2014)_00033	11/23/16		Restek, Lot A0117358		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
I.S. Working_00142	01/19/17	12/19/16	Methanol, Lot DP461	25 mL	8260 IS(2014)_00035	250 uL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene	25 ug/mL
.8260 IS(2014)_00035	01/19/17		Restek, Lot A0117358		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL

Reagent

TOC ICV Std_00029

Certificate of Analysis

Organic Carbon Standard, 1000 ppm C

Lot Number: 1601D96

Product Number: 1847

Manufacture Date: FEB 01, 2016

Expiration Date: JAN 2017

The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is based upon the volumetric method of preparation.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Phosphoric Acid	7664-38-2	ACS
Potassium Acid Phthalate	877-24-7	ACS Acidimetric

Test	Specification	Result
Appearance	Colorless liquid	Passed
Carbon (C)	995-1005 ppm	1000 ppm

Specification	Reference
Organic Carbon Stock Solution	APHA (5310 B)
Potassium Hydrogen Phthalate, Stock Solution	EPA (SW-846) (9060)
Potassium Hydrogen Phthalate, Stock Solution, 1000 mg Carbon/liter	EPA (415.1)
Organic Carbon Solution, Standard (1 mL = 1 mg C)	ASTM (D 2579)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1847-2.5	10 L Cubitainer®	12 months
1847-4	120 mL amber glass	12 months
1847-32	1 L amber glass	12 months
1847-5	20 L Cubitainer®	12 months
1847-8	250 mL amber glass	12 months
1847-1	4 L amber glass	12 months
1847-16	500 mL amber glass	12 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Katie Schnur
Quality Control Manager

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

Reagent

TOC LCS Std_00034

Certificate of Analysis



ISO Guide 34 Reference Material

Product Number: IQC-106
Lot Number: CP-2362

Lot Issue Date: 19-May 2016
Expiration Date: 30-Jun 2018

Product Name: Total Organic Carbon (TOC) Standard

Description:

This Reference Material (RM) was gravimetrically prepared in accordance with ISO Guide 34 and under ULTRA Scientific's ISO 9001 registered quality system. The neat materials used for this product have been verified by ULTRA's ISO 17025 laboratory and under ULTRA's ISO Guide 34 accreditation. The analyte concentrations were verified by ULTRA's ISO 17025 accredited laboratory. For each analyte, the true value, with its uncertainty value calculated at the 95% confidence level, is reported below.

Analyte	Starting Material	Lot Number	Purity (%)	Calculated Value	True Value	Traceability & Method
TOC	potassium hydrogen phthalate	RM09514	99.98	1001 ± 5 µg/mL	985 ± 16 µg/mL	NW09571; TOC Analyzer

Solvent: water (low TOC, <50 ppb)

Storage: Store at Room Temperature (15° to 30°C).

Traceability:

Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on appropriate physical or chemical measurements, including gravimetric or volumetric dilution, where the mass or volume of a solution before and after dilution is measured. The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1, ISO 9001, ISO 17025, and ISO Guide 34. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 819.

Estimation of Uncertainties:

The true value is reported, with its uncertainty value calculated at the 95% confidence level.

Homogeneity:

This RM was formulated and unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening and should be processed without delay for the true value to be valid within the stated uncertainties. Do not pipet from the bottle. Do not return any material removed for pipetting to the bottle. Tightly cap the bottle after removing any material and store according to the instructions noted above.

Hazards:

Refer to the Safety Data Sheet for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid, within the measurement uncertainty specified, until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.



ISO 9001 Registered Quality System – TUV USA

Page 1 of 2

Certificate of Analysis



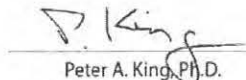
ISO Guide 34 Reference Material

Product Number: IQC-106
Lot Number: CP-2362

Lot Issue Date: 13-May 2016
Expiration Date: 30-Jun 2018

Maintenance of Certification:

The real-time, long term stability of the RM may be monitored over the lifetime of the certification. If substantive changes occur that affect the certification before the expiration of this certificate, ULTRA Scientific will notify the purchaser.



Peter A. King, Ph.D.
VP, Technical Operations



Daniel J. Lamendola
Director of QA/RA

Reagent

8260 IS (2014)_00033



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30241 Lot No.: A0117358
Description : 8260A Internal Standard Mix
8260A Internal Standard Mix 2,500 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : February 28, 2021 Storage: 0°C or colder

REC'D 7-7-16
JDH
960587-588

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Fluorobenzene CAS # 462-06-6 (Lot BCBK8171V) Purity 99%	2,501.8 µg/mL	+/- 14.5457 µg/mL Gravimetric +/- 140.2734 µg/mL Unstressed +/- 143.5557 µg/mL Stressed
2	Chlorobenzene-d5 CAS # 3114-55-4 (Lot PR-23926) Purity 99%	2,500.1 µg/mL	+/- 14.5358 µg/mL Gravimetric +/- 140.1781 µg/mL Unstressed +/- 143.4581 µg/mL Stressed
3	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 (Lot PR-18488) Purity 99%	2,500.7 µg/mL	+/- 14.5393 µg/mL Gravimetric +/- 140.2118 µg/mL Unstressed +/- 143.4925 µg/mL Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

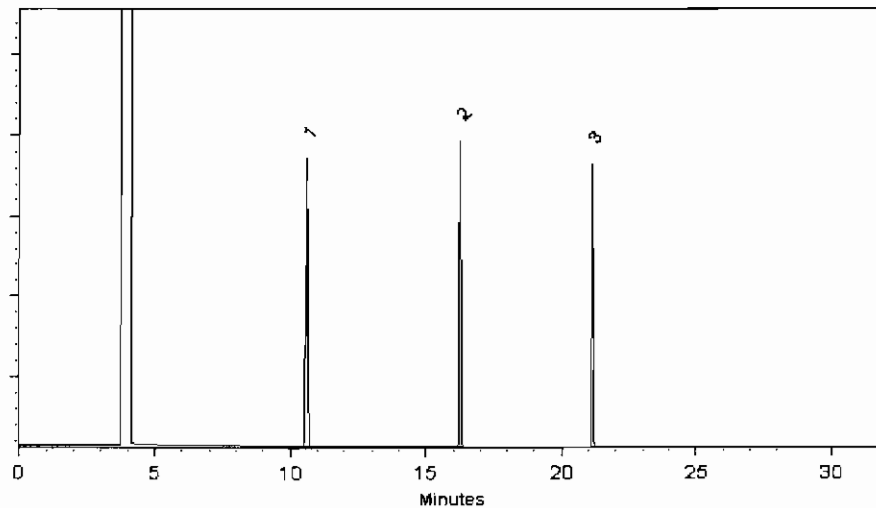
200°C

Det. Temp:

250°C

Det. Type:

FID



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

Brandon Cook

Brandon Cook - Mix Technician

Date Mixed: 16-Feb-2016

Balance: 1127510105

Jennifer L. Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 18-Feb-2016

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

Reagent

8260 IS (2014)_00035



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30241 Lot No.: A0117358
Description : 8260A Internal Standard Mix
8260A Internal Standard Mix 2,500 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : February 28, 2021 Storage: 0°C or colder

REC'D 9-24-16
JDH
1054480-481

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Fluorobenzene CAS # 462-06-6 (Lot BCBK8171V) Purity 99%	2,501.8 µg/mL	+/- 14.5457 µg/mL Gravimetric +/- 140.2734 µg/mL Unstressed +/- 143.5557 µg/mL Stressed
2	Chlorobenzene-d5 CAS # 3114-55-4 (Lot PR-23926) Purity 99%	2,500.1 µg/mL	+/- 14.5358 µg/mL Gravimetric +/- 140.1781 µg/mL Unstressed +/- 143.4581 µg/mL Stressed
3	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 (Lot PR-18488) Purity 99%	2,500.7 µg/mL	+/- 14.5393 µg/mL Gravimetric +/- 140.2118 µg/mL Unstressed +/- 143.4925 µg/mL Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi

Temp. Program:

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

Inj. Temp:

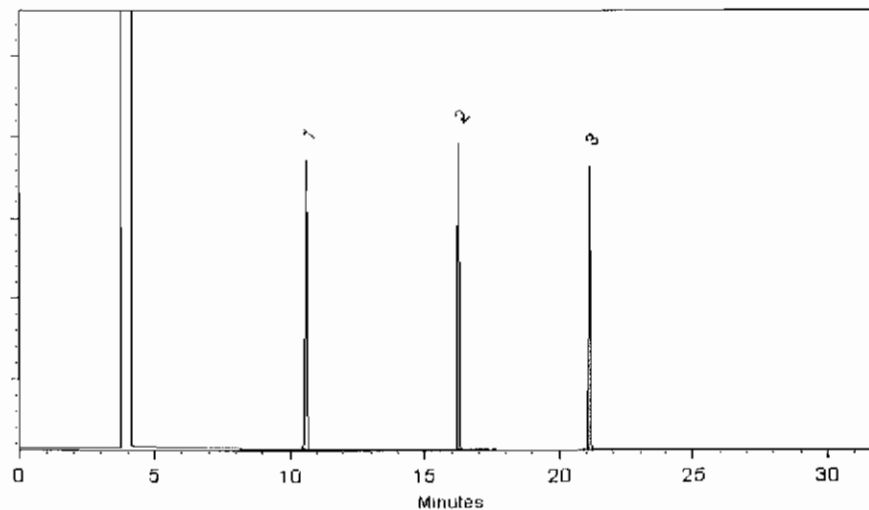
200°C

Det. Temp:

250°C

Det. Type:

FID



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

Brandon Cook
Brandon Cook - Mix Technician

Date Mixed: 16-Feb-2016

Balance: 1127510105

Jennifer L. Pollino
Jennifer L. Pollino - QC Analyst

Date Passed: 18-Feb-2016

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

Reagent

8260_2_CLEVE_00046



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569723 Lot No.: A0115628
Description : 8260 List 1 / Std #4 2-CEVE (2015)
8260 List 1 / Std #4 2-CEVE (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : November 30, 2018 Storage: 0°C or colder

REC'D 9-24-16
JDH
1022808-810

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Chloroethyl vinyl ether CAS # 110-75-8 (Lot MKBK2735V) Purity 99%	2,509.2 µg/mL	+/- 14.5887 µg/mL Gravimetric +/- 53.7223 µg/mL Unstressed +/- 55.2841 µg/mL Stressed

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

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

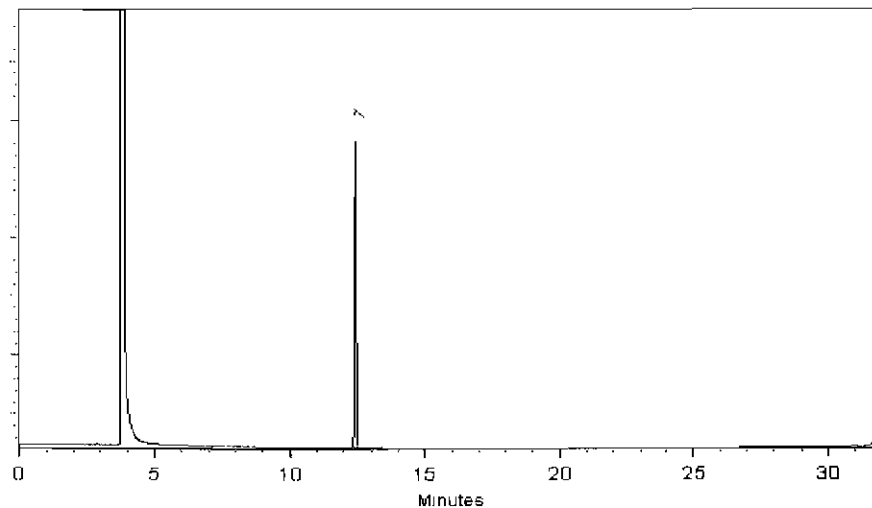
200°C

Det. Temp:

250°C

Det. Type:

FID



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

Cheryl Graham

Cheryl Graham - Mix Technician

Date Mixed: 24-Nov-2015

Balance: B251644995

Jennifer L. Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 30-Nov-2015

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

Reagent

8260_Surr_00041



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567650 Lot No.: A0115812
Description : 8260 Surrogate Standard
8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul
Container Size : 5 mL Pkg Amt: > 5 mL
Expiration Date : December 31, 2020 Storage: 0°C or colder

REC'D 9-24-16
JDH
1035891-892

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dibromofluoromethane CAS # 1868-53-7 (Lot 022012) Purity 99%	2,503.1 µg/mL	+/- 14.5534 µg/mL Gravimetric +/- 140.3482 µg/mL Unstressed +/- 143.6322 µg/mL Stressed
2	1,2-Dichloroethane-d4 CAS # 17060-07-0 (Lot 14C-191) Purity 99%	2,500.1 µg/mL	+/- 14.5360 µg/mL Gravimetric +/- 140.1800 µg/mL Unstressed +/- 143.4600 µg/mL Stressed
3	Toluene-d8 CAS # 2037-26-5 (Lot PR-26282) Purity 99%	2,505.0 µg/mL	+/- 14.5643 µg/mL Gravimetric +/- 140.4529 µg/mL Unstressed +/- 143.7393 µg/mL Stressed
4	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 (Lot 20401KOV) Purity 99%	2,501.1 µg/mL	+/- 14.5418 µg/mL Gravimetric +/- 140.2361 µg/mL Unstressed +/- 143.5174 µg/mL Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

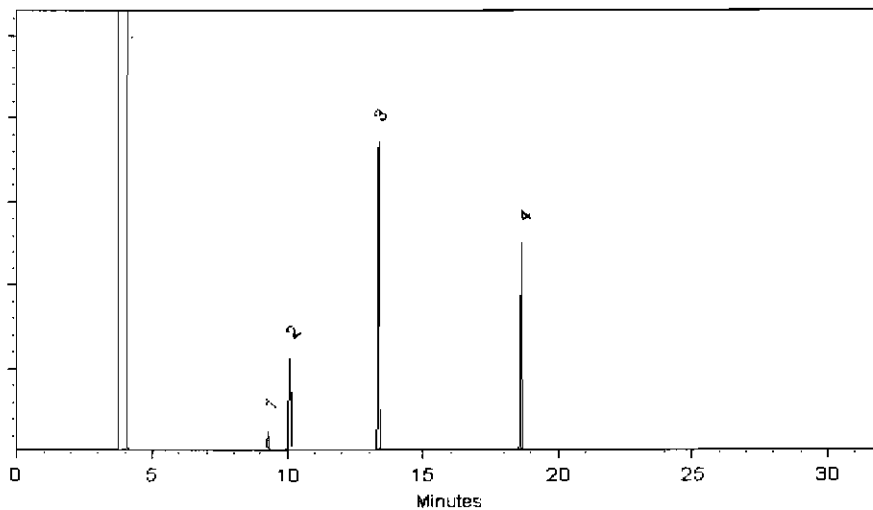
200°C

Det. Temp:

250°C

Det. Type:

FID



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

Brandon Cook
Brandon Cook - Mix Technician

Date Mixed: 07-Dec-2015

Balance: 1127510105

Jennifer L. Pollino
Jennifer L. Pollino - QC Analyst

Date Passed: 10-Dec-2015

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

Reagent

8260_Surr_00043



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567650 Lot No.: A0120212
 Description : 8260 Surrogate Standard
8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul
 Container Size : 5 mL Pkg Amt: > 5 mL
 Expiration Date : July 31, 2021 Storage: 0°C or colder

REC'D 12-12-16
 JDT
 1074913-917

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dibromofluoromethane CAS # 1868-53-7 (Lot 032015) Purity 99%	2,521.3 µg/mL	+/- 14.6591 µg/mL Gravimetric +/- 141.3668 µg/mL Unstressed +/- 144.6746 µg/mL Stressed
2	1,2-Dichloroethane-d4 CAS # 17060-07-0 (Lot 14C-191) Purity 99%	2,523.7 µg/mL	+/- 14.6730 µg/mL Gravimetric +/- 141.5014 µg/mL Unstressed +/- 144.8123 µg/mL Stressed
3	Toluene-d8 CAS # 2037-26-5 (Lot PR-26623) Purity 99%	2,523.6 µg/mL	+/- 14.6724 µg/mL Gravimetric +/- 141.4957 µg/mL Unstressed +/- 144.8066 µg/mL Stressed
4	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 (Lot 20401KOV) Purity 99%	2,510.9 µg/mL	+/- 14.5986 µg/mL Gravimetric +/- 140.7837 µg/mL Unstressed +/- 144.0778 µg/mL Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

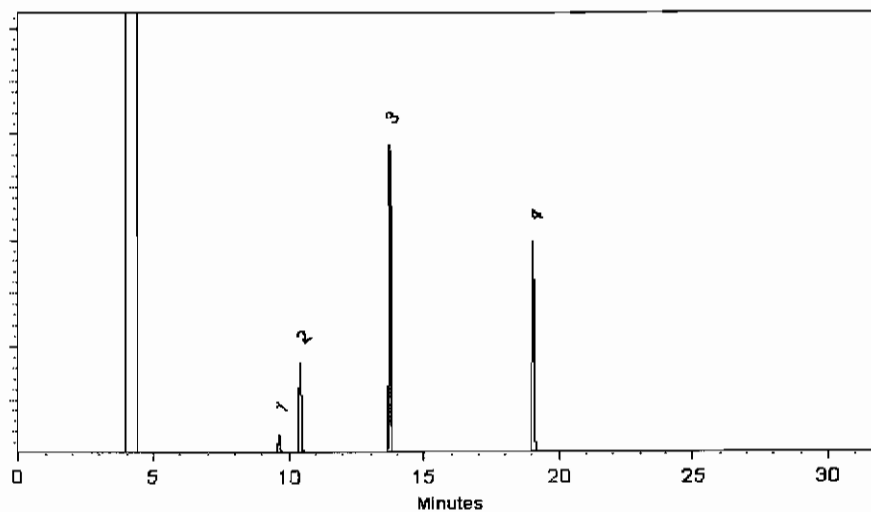
200°C

Det. Temp:

250°C

Det. Type:

FID



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

Dawn Brown

Dawn Brownson - Mix Technician

Date Mixed: 06-Jul-2016

Balance: 1125113331

Jennifer L. Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 11-Jul-2016

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

Reagent

8260Custom1_00044



CERTIFICATE OF ANALYSIS

Catalog No: S-26138

Description: Custom VOC Standard

Lot: 215101095-01

Solvent: Methanol

Hazards: **HIGHLY FLAMMABLE** - Refer to SDS for safety info

Date Certified: Jul 25, 2016

Expiration: Jul 25, 2017

Sample Size: 1 mL

Components: 2

Storage Condition: Refrig (0-5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes



Danger 2

Component	CAS #	Purity % (GC/FID)	Prepared Concentration ¹ (µg/mL)	Certified Analyte Concentration ² (µg/mL)
Freon 114	76-14-2	99.0	2013	1993
Nonanal	124-19-6	100.0	2004	2004

REC'D 7-26-16
Jdt

962484-488

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

¹ All weights are traceable through NIST, Test No. 822-275872-11

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

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By:

Larry Decker, Organic QC Manager

CERTIFICATION REPORT

1. **Quality Documentation:** This certificate is designed in accordance with ISO Guide 31 (Reference Materials - Contents of Certificates and Labels) and ISO Guide 35 (Reference Materials – General and Statistical Principles for Certification).

2. **Quality Standards:**

ISO Guide 34 - General Requirements for the Competence of
Reference Material Producers ANAB Certificate Number AR-1463



ISO/IEC 17025 - General Requirements for the Competence of
Testing and Calibration Laboratories ANAB Certificate Number AT-1339



ISO 9001 - Quality Management System - Requirements
Eagle Registrations Certificate Number 3774

3. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 11. If dilution is required, use only Class A glassware and diluent compatible with all certified analytes in this preparation. All solutions should be thoroughly mixed prior to use.
4. **Raw Materials:** Reference standards are prepared from the highest quality starting materials with defined purities. All analytes and solvents are obtained from pre-qualified vendors and then analyzed or evaluated prior to use.
5. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.
6. **Homogeneity Assessment:** Homogeneity of the finished product is assessed by analyzing sample batches or by other methods consistent with the intended use of the product and by procedures that comply with the appropriate Quality System requirements, and ISO Guide 35.
7. **Stability Assessment:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label. To ensure a uniform solution, mix the contents of the sealed container thoroughly prior to use. Care should be taken not to contaminate the contents of the original container.
8. **Analytical Quality Control:** Products are tested by validated analytical methods specified in the manufacturer's quality system.
9. **Uncertainty Statistics and Confidence Limits:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula:
$$u_m = \sqrt{(u(P))^2 + (u(m))^2 + (u(V))^2}$$

The expanded uncertainty, U_{CRM} assumes a normal distribution and a coverage factor of $k=2$ is chosen using approximately a 95% confidence level. The U_{CRM} for organic products is $\pm 5\%$, the U_{CRM} for inorganic products is $\pm 2\%$.
10. **Warranties:** The manufacturer warrants that its products shall conform to the description of such products as provided in its catalog or on the specific product label. This warranty is exclusive, and the manufacturer makes no other warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.
11. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. Due to the hazardous nature, only trained personnel should handle this product. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Reagent

8260Cyclohexa_00046



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569727 **Lot No.:** A0116621

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000 µg/ml, Water, 1 ml/ampul

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

Expiration Date : January 31, 2019 **Storage:** 10°C or colder

REC'D -9-24-16
JDH
1022814-816

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Cyclohexanone	25.086.7 µg/mL	+/- 146.8879 µg/mL Gravimetric
	CAS # 108-94-1 (Lot MKBN5282V)		+/- 1,513.6896 µg/mL Unstressed
	Purity 99%		+/- 1,517.2828 µg/mL Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

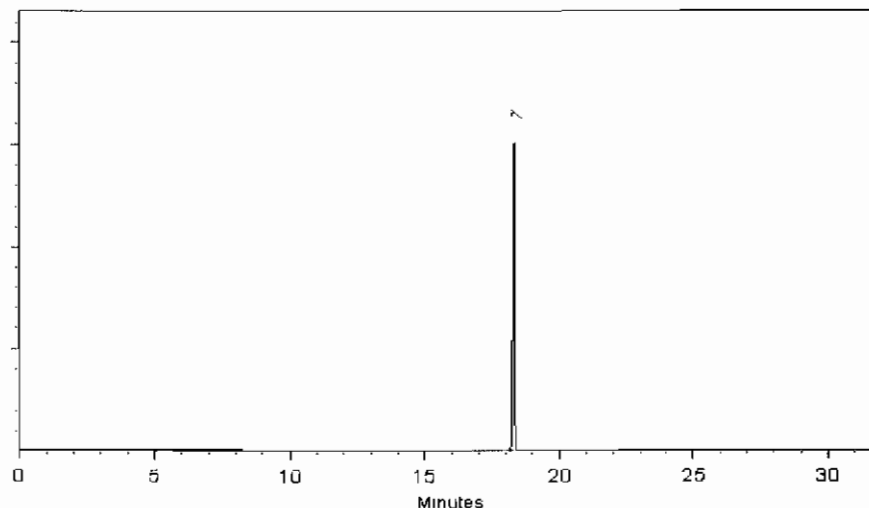
200°C

Det. Temp:

250°C

Det. Type:

FID



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

Cheryl Graham

Cheryl Graham - Mix Technician

Date Mixed: 17-Jan-2016

Balance: 1125113331

Amanda Miller

Amanda Miller - QC Analyst

Date Passed: 19-Jan-2016

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

Reagent

8260Gases_00182



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 569722 Lot No.: A0118719

Description: 8260 List 1 / Std #3 Gases (2015)
8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

Container Size: 2 mL Pkg Amt: > 1 mL

Expiration Date: April 30, 2019 Storage: 0°C or colder

REC'D 9-24-16
JDH

1012263 - 272

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,504.2 µg/mL	+/-	18.7109	µg/mL Gravimetric
	CAS # 75-71-8 (Lot Q167-08)		+/-	140.8995	µg/mL Unstressed
	Purity 99%		+/-	144.1737	µg/mL Stressed
2	Chloromethane (methyl chloride)	2,500.6 µg/mL	+/-	18.9897	µg/mL Gravimetric
	CAS # 74-87-3 (Lot SHBG1480V)		+/-	140.7385	µg/mL Unstressed
	Purity 99%		+/-	144.0070	µg/mL Stressed
3	Vinyl chloride	2,499.8 µg/mL	+/-	20.8058	µg/mL Gravimetric
	CAS # 75-01-4 (Lot 251.PST)		+/-	140.9486	µg/mL Unstressed
	Purity 99%		+/-	144.2103	µg/mL Stressed
4	1,3-Butadiene	2,500.6 µg/mL	+/-	21.2874	µg/mL Gravimetric
	CAS # 106-99-0 (Lot SHBF3387V)		+/-	141.0663	µg/mL Unstressed
	Purity 99%		+/-	144.3274	µg/mL Stressed
5	Bromomethane (methyl bromide)	2,500.1 µg/mL	+/-	22.8576	µg/mL Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/-	141.2859	µg/mL Unstressed
	Purity 99%		+/-	144.5409	µg/mL Stressed
6	Chloroethane (ethyl chloride)	2,500.3 µg/mL	+/-	19.5969	µg/mL Gravimetric
	CAS # 75-00-3 (Lot SHBD1717V)		+/-	140.8062	µg/mL Unstressed
	Purity 99%		+/-	144.0725	µg/mL Stressed
7	Dichlorofluoromethane (CFC-21)	2,504.7 µg/mL	+/-	19.5937	µg/mL Gravimetric
	CAS # 75-43-4 (Lot Q9B-58)		+/-	141.0449	µg/mL Unstressed
	Purity 99%		+/-	144.3170	µg/mL Stressed

8	Trichlorofluoromethane (CFC-11)	2,497.3 µg/mL	+/- 18.0543 µg/mL	Gravimetric
	CAS # 75-69-4 (Lot SHBF6387V)		+/- 140.4322 µg/mL	Unstressed
	Purity 99%		+/- 143.6992 µg/mL	Stressed

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

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

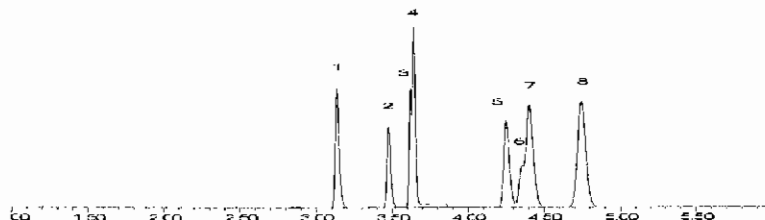
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Cheryl Graham
Cheryl Graham - Mix Technician

Date Mixed: 13-Apr-2016 **Balance:** 1125113331

Jennifer L. Pollino
Jennifer L. Pollino - QC Analyst

Date Passed: 19-Apr-2016

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

Reagent

8260Gases_00191



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569722 **Lot No.:** A0118719

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol, 1 ml/ampul

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

Expiration Date : April 30, 2019 **Storage:** 0°C or colder

REC'D 11-4-16
JDT
1064454-459

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12) CAS # 75-71-8 (Lot Q167-08) Purity 99%	2,504.2 µg/mL	+/- 18.7109 µg/mL +/- 140.8995 µg/mL +/- 144.1737 µg/mL
2	Chloromethane (methyl chloride) CAS # 74-87-3 (Lot SHBG1480V) Purity 99%	2,500.6 µg/mL	+/- 18.9897 µg/mL +/- 140.7385 µg/mL +/- 144.0070 µg/mL
3	Vinyl chloride CAS # 75-01-4 (Lot 25LPST) Purity 99%	2,499.8 µg/mL	+/- 20.8058 µg/mL +/- 140.9486 µg/mL +/- 144.2103 µg/mL
4	1,3-Butadiene CAS # 106-99-0 (Lot SHBF3387V) Purity 99%	2,500.6 µg/mL	+/- 21.2874 µg/mL +/- 141.0663 µg/mL +/- 144.3274 µg/mL
5	Bromomethane (methyl bromide) CAS # 74-83-9 (Lot 101604) Purity 99%	2,500.1 µg/mL	+/- 22.8576 µg/mL +/- 141.2859 µg/mL +/- 144.5409 µg/mL
6	Chloroethane (ethyl chloride) CAS # 75-00-3 (Lot SHBD1717V) Purity 99%	2,500.3 µg/mL	+/- 19.5969 µg/mL +/- 140.8062 µg/mL +/- 144.0725 µg/mL
7	Dichlorofluoromethane (CFC-21) CAS # 75-43-4 (Lot Q9B-58) Purity 99%	2,504.7 µg/mL	+/- 19.5937 µg/mL +/- 141.0449 µg/mL +/- 144.3170 µg/mL

8	Trichlorofluoromethane (CFC-11)	2,497.3 µg/mL	+/- 18.0543 µg/mL	Gravimetric
CAS #	75-69-4 (Lot SHBF6387V)		+/- 140.4322 µg/mL	Unstressed
Purity	99%		+/- 143.6992 µg/mL	Stressed

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

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

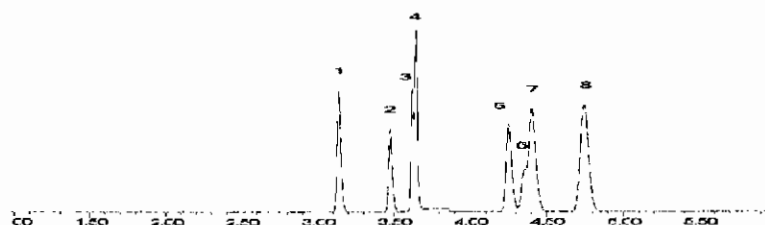
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Cheryl Graham
Cheryl Graham - Mix Technician

Date Mixed: 13-Apr-2016 Balance: 1125113331

Jennifer L. Pollino
Jennifer L. Pollino - QC Analyst

Date Passed: 19-Apr-2016

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

Reagent

8260GasesSS_00183



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 569722.sec Lot No.: A0115484

Description: 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500 ug/ml, P&T Methanol. 1 ml/ampul

Container Size: 2 mL Pkg Amt: > 1 mL

Expiration Date: November 30, 2018 Storage: 0°C or colder

REC'D 9-24-16
JDH
1012273-282

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12) CAS # 75-71-8.SEC (Lot 22274) Purity 99%	2.505.6 µg/mL	+/- 16.6251 µg/mL Gravimetric +/- 140.7169 µg/mL Unstressed +/- 143.9990 µg/mL Stressed
2	Chloromethane (methyl chloride) CAS # 74-87-3.SEC (Lot 18343) Purity 99%	2.517.3 µg/mL	+/- 17.3796 µg/mL Gravimetric +/- 141.4522 µg/mL Unstressed +/- 144.7477 µg/mL Stressed
3	Vinyl chloride CAS # 75-01-4.SEC (Lot MKBK6872V) Purity 99%	2.510.2 µg/mL	+/- 16.6342 µg/mL Gravimetric +/- 140.9727 µg/mL Unstressed +/- 144.2609 µg/mL Stressed
4	1,3-Butadiene CAS # 106-99-0.SEC (Lot 22331) Purity 99%	2.516.5 µg/mL	+/- 17.4874 µg/mL Gravimetric +/- 141.4240 µg/mL Unstressed +/- 144.7182 µg/mL Stressed
5	Bromomethane (methyl bromide) CAS # 74-83-9.SEC (Lot Q119-46) Purity 99%	2.511.5 µg/mL	+/- 16.8310 µg/mL Gravimetric +/- 141.0664 µg/mL Unstressed +/- 144.3557 µg/mL Stressed
6	Chloroethane (ethyl chloride) CAS # 75-00-3.SEC (Lot 00004202) Purity 99%	2.504.8 µg/mL	+/- 16.4341 µg/mL Gravimetric +/- 140.6469 µg/mL Unstressed +/- 143.9283 µg/mL Stressed
7	Dichlorofluoromethane (CFC-21) CAS # 75-43-4.SEC (Lot SHBC0858V) Purity 99%	2.500.5 µg/mL	+/- 16.1659 µg/mL Gravimetric +/- 140.3776 µg/mL Unstressed +/- 143.6540 µg/mL Stressed

8	Trichlorofluoromethane (CFC-11)	2.524.5	µg/mL	+/-	16.8928	µg/mL	Gravimetric
	CAS # 75-69-4.SEC (Lot Q12B-59)			+/-	141.7952	µg/mL	Unstressed
	Purity 99%			+/-	145.1017	µg/mL	Stressed

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

Column:

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

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 5 min.) to 100°C
 @ 5°C/min.

inj. Temp:

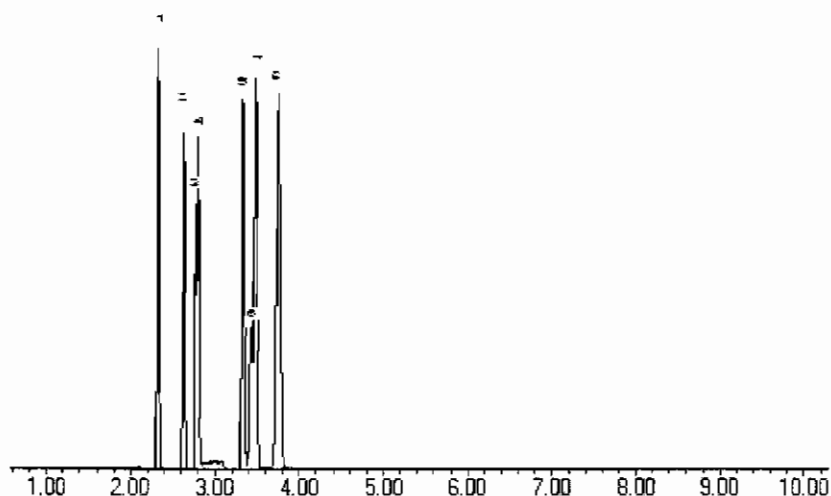
200°C

Det. Temp:

250°C

Det. Type:

MSD



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

Lane Kibe
 Lane Kibe - Mix Technician

Date Mixed: 17-Nov-2015 Balance: 1127510105

Jennifer L. Pollino
 Jennifer L. Pollino - QC Analyst

Date Passed: 10-Dec-2015

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

Reagent

8260Ketones_00046



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721 Lot No.: A0115554

Description : 8260 List 1/ Std #2 Ketones (2015)
8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : November 30, 2018 Storage: 0°C or colder

REC'D 9-24-16

JDH

1022802-804

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetone CAS # 67-64-1 (Lot 07196AK) Purity 99%	12,501.8 µg/mL	+/- 72.6865 µg/mL Gravimetric +/- 754.2890 µg/mL Unstressed +/- 756.0798 µg/mL Stressed
2	2-Butanone (MEK) CAS # 78-93-3 (Lot SHBG0444V) Purity 98%	12,499.7 µg/mL	+/- 72.6744 µg/mL Gravimetric +/- 754.1625 µg/mL Unstressed +/- 755.9530 µg/mL Stressed
3	4-Methyl-2-pentanone (MIBK) CAS # 108-10-1 (Lot SHBF9556V) Purity 99%	12,500.6 µg/mL	+/- 72.6796 µg/mL Gravimetric +/- 754.2166 µg/mL Unstressed +/- 756.0072 µg/mL Stressed
4	2-Hexanone CAS # 591-78-6 (Lot MKBT3158V) Purity 99%	12,502.4 µg/mL	+/- 72.6900 µg/mL Gravimetric +/- 754.3252 µg/mL Unstressed +/- 756.1161 µg/mL Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi

Temp. Program:

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

Inj. Temp:

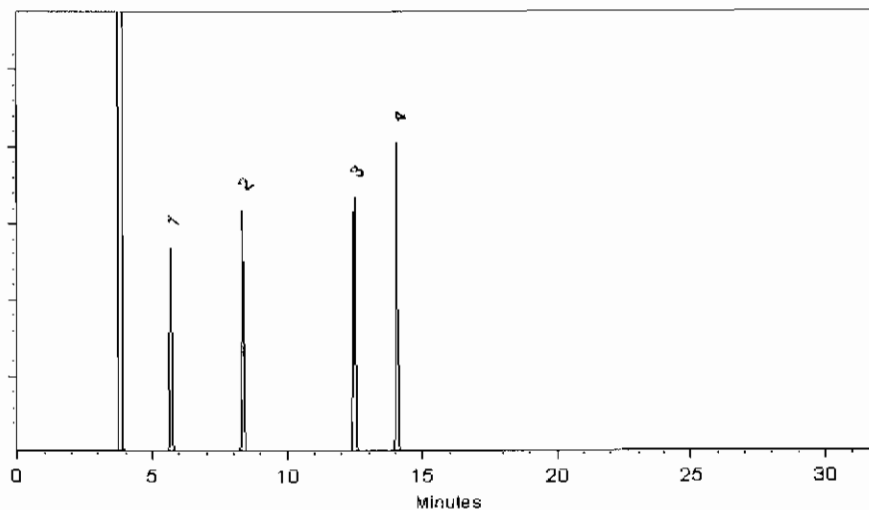
200°C

Det. Temp:

250°C

Det. Type:

FID

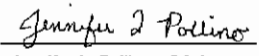


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


P. Joseph Talon - Mix Technician

Date Mixed: 20-Nov-2015

Balance: B251644995


Jennifer L. Pollino - QC Analyst

Date Passed: 24-Nov-2015

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

Reagent

8260Ketones_00048

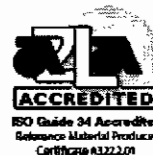


CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 569721 Lot No.: A0115554

Description: 8260 List 1/ Std #2 Ketones (2015)
8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size: 2 mL Pkg Amt: > 1 mL

Expiration Date: November 30, 2018 Storage: 0°C or colder

REC'D 12-12-16
Jdt

1074890-892

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetone CAS # 67-64-1 (Lot 07196AK) Purity 99%	12,501.8 µg/mL	+/- 72.6865 µg/mL +/- 754.2890 µg/mL +/- 756.0798 µg/mL
2	2-Butanone (MEK) CAS # 78-93-3 (Lot SHBG0444V) Purity 98%	12,499.7 µg/mL	+/- 72.6744 µg/mL +/- 754.1625 µg/mL +/- 755.9530 µg/mL
3	4-Methyl-2-pentanone (MIBK) CAS # 108-10-1 (Lot SHBF9556V) Purity 99%	12,500.6 µg/mL	+/- 72.6796 µg/mL +/- 754.2166 µg/mL +/- 756.0072 µg/mL
4	2-Hexanone CAS # 591-78-6 (Lot MKBT3158V) Purity 99%	12,502.4 µg/mL	+/- 72.6900 µg/mL +/- 754.3252 µg/mL +/- 756.1161 µg/mL

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

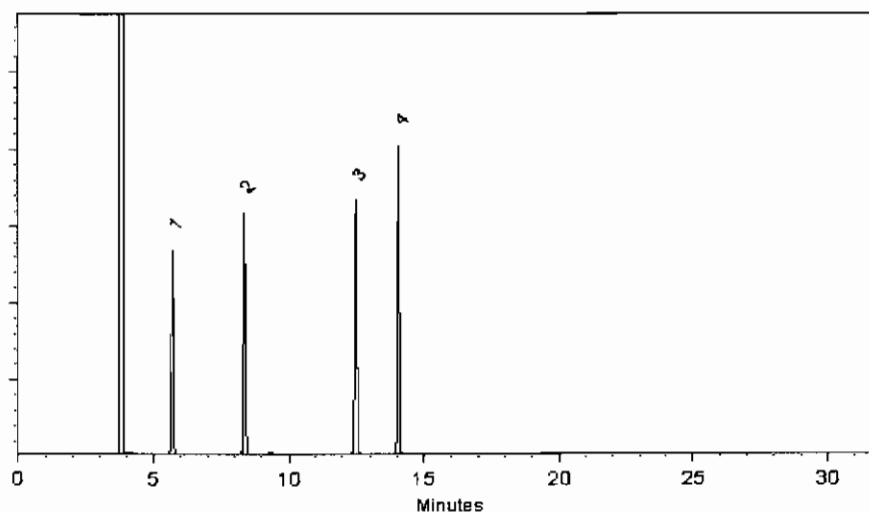
200°C

Det. Temp:

250°C

Det. Type:

FID

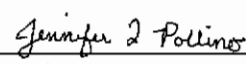


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


F. Joseph Tallon - Mix Technician

Date Mixed: 20-Nov-2015

Balance: B251644995


Jennifer L. Pollino - QC Analyst

Date Passed: 24-Nov-2015

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

Reagent

8260KetonesSS_00045



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721.sec Lot No.: A0118013

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500 µg/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : March 31, 2019 Storage: 0°C or colder

REC'D 9-24-16
Jat

1022805-807

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetone CAS # 67-64-1.SEC (Lot P14A572) Purity 99%	12,550.0 µg/mL	+/- 73.4830 µg/mL Gravimetric +/- 757.2470 µg/mL Unstressed +/- 759.0446 µg/mL Stressed
2	2-Butanone (MEK) CAS # 78-93-3.SEC (Lot RA58J) Purity 99%	12,603.0 µg/mL	+/- 73.7933 µg/mL Gravimetric +/- 760.4450 µg/mL Unstressed +/- 762.2502 µg/mL Stressed
3	4-Methyl-2-pentanone (MIBK) CAS # 108-10-1.SEC (Lot E29T040) Purity 99%	12,591.5 µg/mL	+/- 73.7260 µg/mL Gravimetric +/- 759.7511 µg/mL Unstressed +/- 761.5546 µg/mL Stressed
4	2-Hexanone CAS # 591-78-6.SEC (Lot V3NRA) Purity 99%	12,588.0 µg/mL	+/- 73.7055 µg/mL Gravimetric +/- 759.5399 µg/mL Unstressed +/- 761.3429 µg/mL Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

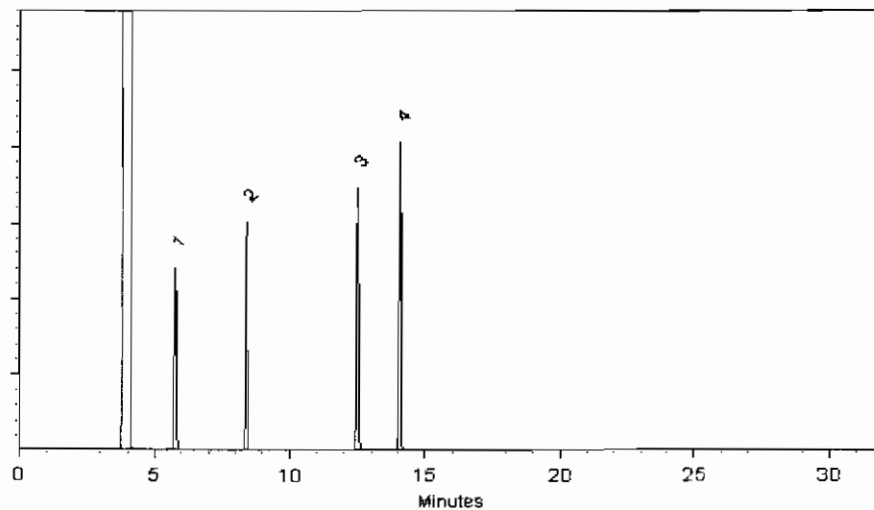
200°C

Det. Temp:

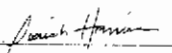
250°C

Det. Type:

FID

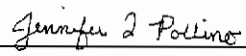


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Isaiah Harrison - Mix Technician

Date Mixed: 14-Mar-2016

Balance: 1127510105


Jennifer L. Pollino - QC Analyst

Date Passed: 16-Mar-2016

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

Reagent

8260MegaMix_00046



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569720 Lot No.: A0118177

Description : 8260 List 1 / Std #1 MegaMix (2015)
8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

REC'D 9-24-16
JDH

Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : March 31, 2018 Storage: 0°C or colder

1022796-798

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Diethyl ether (ethyl ether) CAS # 60-29-7 (Lot SHBG1462V) Purity 99%	2,503.5 µg/mL	+/- 14.5556 µg/mL Gravimetric +/- 151.0472 µg/mL Unstressed +/- 151.4059 µg/mL Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) CAS # 76-13-1 (Lot 00004562) Purity 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL Gravimetric +/- 150.8361 µg/mL Unstressed +/- 151.1942 µg/mL Stressed
3	1,1-Dichloroethane CAS # 75-34-3 (Lot 00008621) Purity 99%	2,500.1 µg/mL	+/- 14.5359 µg/mL Gravimetric +/- 150.8436 µg/mL Unstressed +/- 151.2017 µg/mL Stressed
4	tert-Butanol (TBA) CAS # 75-65-0 (Lot SHBD0362V) Purity 99%	25,033.4 µg/mL	+/- 145.5386 µg/mL Gravimetric +/- 1,510.3737 µg/mL Unstressed +/- 1,513.9596 µg/mL Stressed
5	Iodomethane (methyl iodide) CAS # 74-88-4 (Lot SHBF2149V) Purity 98%	2,502.9 µg/mL	+/- 14.5522 µg/mL Gravimetric +/- 151.0123 µg/mL Unstressed +/- 151.3708 µg/mL Stressed
6	Methyl acetate CAS # 79-20-9 (Lot SHBD7134V) Purity 98%	12,508.6 µg/mL	+/- 72.7223 µg/mL Gravimetric +/- 754.6987 µg/mL Unstressed +/- 756.4905 µg/mL Stressed
7	Allyl chloride (3-chloropropene) CAS # 107-05-1 (Lot SHBF8133V) Purity 99%	2,500.0 µg/mL	+/- 19.2743 µg/mL Gravimetric +/- 151.3663 µg/mL Unstressed +/- 151.7231 µg/mL Stressed

8	Methylene chloride (dichloromethane) CAS # 75-09-2 Purity 99%	(Lot SHBF9870V)	2,521.4	µg/mL	+/-	14.6595	µg/mL	Gravimetric
					+/-	152.1257	µg/mL	Unstressed
					+/-	152.4869	µg/mL	Stressed
9	Carbon disulfide CAS # 75-15-0 Purity 99%	(Lot S20A856)	2,516.0	µg/mL	+/-	14.6282	µg/mL	Gravimetric
					+/-	151.8014	µg/mL	Unstressed
					+/-	152.1618	µg/mL	Stressed
10	Acrylonitrile CAS # 107-13-1 Purity 99%	(Lot J08Z057)	25,001.3	µg/mL	+/-	145.3518	µg/mL	Gravimetric
					+/-	1,508.4355	µg/mL	Unstressed
					+/-	1,512.0167	µg/mL	Stressed
11	cis-1,2-Dichloroethene CAS # 156-59-2 Purity 98%	(Lot MKBV2831V)	2,507.8	µg/mL	+/-	14.5807	µg/mL	Gravimetric
					+/-	151.3079	µg/mL	Unstressed
					+/-	151.6671	µg/mL	Stressed
12	n-Hexane (C6) CAS # 110-54-3 Purity 99%	(Lot SHBF7674V)	2,512.4	µg/mL	+/-	14.6072	µg/mL	Gravimetric
					+/-	151.5827	µg/mL	Unstressed
					+/-	151.9426	µg/mL	Stressed
13	1,1-dichloroethene CAS # 75-35-4 Purity 99%	(Lot 73896KMV)	2,508.1	µg/mL	+/-	14.5825	µg/mL	Gravimetric
					+/-	151.3263	µg/mL	Unstressed
					+/-	151.6856	µg/mL	Stressed
14	2,2-Dichloropropane CAS # 594-20-7 Purity 99%	(Lot BCBL9720V)	2,507.6	µg/mL	+/-	14.5795	µg/mL	Gravimetric
					+/-	151.2961	µg/mL	Unstressed
					+/-	151.6553	µg/mL	Stressed
15	trans-1,2-Dichloroethene CAS # 156-60-5 Purity 99%	(Lot MKBH9850V)	2,509.8	µg/mL	+/-	14.5919	µg/mL	Gravimetric
					+/-	151.4243	µg/mL	Unstressed
					+/-	151.7838	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol) CAS # 78-83-1 Purity 99%	(Lot SHBD1647V)	62,815.4	µg/mL	+/-	365.1949	µg/mL	Gravimetric
					+/-	3,789.9281	µg/mL	Unstressed
					+/-	3,798.9260	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE) CAS # 1634-04-4 Purity 99%	(Lot MKBV2134V)	2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
					+/-	151.4394	µg/mL	Unstressed
					+/-	151.7990	µg/mL	Stressed
18	Bromochloromethane CAS # 74-97-5 Purity 99%	(Lot 00004559)	2,507.0	µg/mL	+/-	14.5759	µg/mL	Gravimetric
					+/-	151.2584	µg/mL	Unstressed
					+/-	151.6175	µg/mL	Stressed
19	Tetrahydrofuran CAS # 109-99-9 Purity 99%	(Lot SHBG2910V)	5,025.3	µg/mL	+/-	29.2172	µg/mL	Gravimetric
					+/-	303.1956	µg/mL	Unstressed
					+/-	303.9154	µg/mL	Stressed
20	1,1,1-trichloroethane CAS # 71-55-6 Purity 99%	(Lot B15MW0705)	2,508.9	µg/mL	+/-	14.5868	µg/mL	Gravimetric
					+/-	151.3715	µg/mL	Unstressed
					+/-	151.7309	µg/mL	Stressed
21	Cyclohexane CAS # 110-82-7 Purity 99%	(Lot MKBV3194V)	2,503.4	µg/mL	+/-	14.5548	µg/mL	Gravimetric
					+/-	151.0397	µg/mL	Unstressed
					+/-	151.3983	µg/mL	Stressed
22	1,1-Dichloropropene CAS # 563-58-6 Purity 99%	(Lot PR09161302)	2,507.4	µg/mL	+/-	14.5781	µg/mL	Gravimetric
					+/-	151.2810	µg/mL	Unstressed
					+/-	151.6402	µg/mL	Stressed
23	carbon tetrachloride CAS # 56-23-5 Purity 99%	(Lot SHBG1763V)	2,505.9	µg/mL	+/-	14.5694	µg/mL	Gravimetric
					+/-	151.1905	µg/mL	Unstressed
					+/-	151.5495	µg/mL	Stressed

24	n-Heptane (C7) CAS # 142-82-5 Purity 99%	(Lot MKBV6176V)	2.510.8	µg/mL	+/-	14.5977	µg/mL	Gravimetric
					+/-	151.4847	µg/mL	Unstressed
					+/-	151.8443	µg/mL	Stressed
25	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot MKBV4565V)	2.511.1	µg/mL	+/-	14.5999	µg/mL	Gravimetric
					+/-	151.5073	µg/mL	Unstressed
					+/-	151.8670	µg/mL	Stressed
26	Benzene CAS # 71-43-2 Purity 99%	(Lot SHBG1169V)	2.502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
					+/-	151.0095	µg/mL	Unstressed
					+/-	151.3681	µg/mL	Stressed
27	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBF0943V)	2.500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
					+/-	150.8587	µg/mL	Unstressed
					+/-	151.2169	µg/mL	Stressed
28	Methylcyclohexane CAS # 108-87-2 Purity 99%	(Lot 50996APV)	2.503.9	µg/mL	+/-	14.5577	µg/mL	Gravimetric
					+/-	151.0699	µg/mL	Unstressed
					+/-	151.4285	µg/mL	Stressed
29	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot 01113D0V)	2.523.5	µg/mL	+/-	14.6718	µg/mL	Gravimetric
					+/-	152.2539	µg/mL	Unstressed
					+/-	152.6154	µg/mL	Stressed
30	bromodichloromethane CAS # 75-27-4 Purity 98%	(Lot MKBL1617V)	2.509.0	µg/mL	+/-	14.5878	µg/mL	Gravimetric
					+/-	151.3818	µg/mL	Unstressed
					+/-	151.7412	µg/mL	Stressed
31	1,4-Dioxane CAS # 123-91-1 Purity 99%	(Lot SHBG6312V)	50.018.1	µg/mL	+/-	290.7945	µg/mL	Gravimetric
					+/-	3,017.8137	µg/mL	Unstressed
					+/-	3,024.9785	µg/mL	Stressed
32	Dibromomethane CAS # 74-95-3 Purity 98%	(Lot 10183283)	2.511.4	µg/mL	+/-	14.6013	µg/mL	Gravimetric
					+/-	151.5222	µg/mL	Unstressed
					+/-	151.8820	µg/mL	Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot 22622)	2.506.0	µg/mL	+/-	14.5701	µg/mL	Gravimetric
					+/-	151.1981	µg/mL	Unstressed
					+/-	151.5571	µg/mL	Stressed
34	Toluene CAS # 108-88-3 Purity 99%	(Lot MKBV5601V)	2.515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
					+/-	151.7713	µg/mL	Unstressed
					+/-	152.1316	µg/mL	Stressed
35	Ethyl methacrylate CAS # 97-63-2 Purity 99%	(Lot SHBD9190V)	2.503.1	µg/mL	+/-	14.5534	µg/mL	Gravimetric
					+/-	151.0246	µg/mL	Unstressed
					+/-	151.3832	µg/mL	Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 99%	(Lot C584177)	2.508.0	µg/mL	+/-	14.5817	µg/mL	Gravimetric
					+/-	151.3188	µg/mL	Unstressed
					+/-	151.6780	µg/mL	Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	2.508.4	µg/mL	+/-	14.5839	µg/mL	Gravimetric
					+/-	151.3414	µg/mL	Unstressed
					+/-	151.7007	µg/mL	Stressed
38	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBG2162V)	2.522.8	µg/mL	+/-	14.6675	µg/mL	Gravimetric
					+/-	152.2087	µg/mL	Unstressed
					+/-	152.5701	µg/mL	Stressed
39	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBD9374V)	2.518.9	µg/mL	+/-	14.6450	µg/mL	Gravimetric
					+/-	151.9749	µg/mL	Unstressed
					+/-	152.3357	µg/mL	Stressed

40	dibromochloromethane CAS # 124-48-1 Purity 98%	(Lot MKBQ6577V)	2,505.4	µg/mL	+/- +/- +/-	14.5664 151.1601 151.5190	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) CAS # 106-93-4 Purity 99%	(Lot BCBH3877V)	2,505.1	µg/mL	+/- +/- +/-	14.5650 151.1453 151.5041	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene CAS # 108-90-7 Purity 99%	(Lot SHBF0505V)	2,505.6	µg/mL	+/- +/- +/-	14.5679 151.1755 151.5344	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	1,1,2,2-Tetrachloroethane CAS # 79-34-5 Purity 99%	(Lot CFA4D)	2,505.1	µg/mL	+/- +/- +/-	14.5650 151.1453 151.5041	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	Ethylbenzene CAS # 100-41-4 Purity 99%	(Lot SHBG5920V)	2,506.1	µg/mL	+/- +/- +/-	14.5708 151.2056 151.5646	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	m-Xylene CAS # 108-38-3 Purity 99%	(Lot SHBF8095V)	1,254.4	µg/mL	+/- +/- +/-	7.2930 75.6820 75.8617	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	p-Xylene CAS # 106-42-3 Purity 99%	(Lot SHBF3427V)	1,250.0	µg/mL	+/- +/- +/-	7.2676 75.4180 75.5971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene CAS # 95-47-6 Purity 99%	(Lot SHBF7003V)	2,506.3	µg/mL	+/- +/- +/-	14.5716 151.2132 151.5722	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene CAS # 100-42-5 Purity 99%	(Lot MKBS7097V)	2,503.9	µg/mL	+/- +/- +/-	14.5577 151.0699 151.4285	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) CAS # 98-82-8 Purity 99%	(Lot 10185056)	2,509.4	µg/mL	+/- +/- +/-	14.5897 151.4017 151.7612	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform CAS # 75-25-2 Purity 99%	(Lot SHBC3410V)	2,503.3	µg/mL	+/- +/- +/-	14.5541 151.0322 151.3907	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	1,1,1,2-Tetrachloroethane CAS # 630-20-6 Purity 99%	(Lot MKBS3769V)	2,505.0	µg/mL	+/- +/- +/-	14.5643 151.1378 151.4966	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	chloroform CAS # 67-66-3 Purity 99%	(Lot MKBV2089V)	2,507.8	µg/mL	+/- +/- +/-	14.5803 151.3037 151.6629	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane CAS # 96-18-4 Purity 99%	(Lot BCBH8722V)	2,504.8	µg/mL	+/- +/- +/-	14.5628 151.1227 151.4815	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene CAS # 110-57-6 Purity 95%	(Lot MKBP6041V)	2,499.7	µg/mL	+/- +/- +/-	14.5334 150.8172 151.1753	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene CAS # 103-65-1 Purity 99%	(Lot MKBJ0332V)	2,507.5	µg/mL	+/- +/- +/-	14.5788 151.2886 151.6478	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene CAS # 108-86-1 Purity 99%	(Lot MKBD4032V)	2,515.1	µg/mL	+/- +/- +/-	14.6232 151.7486 152.1089	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 98%	(Lot MKBJ6229V)	2,503.7	µg/mL	+/- +/- +/-	14.5565 151.0566 151.4152	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKBH8892V)	2,502.1	µg/mL	+/- +/- +/-	14.5476 150.9643 151.3227	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKBL7753V)	2,512.6	µg/mL	+/- +/- +/-	14.6086 151.5978 151.9577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot S52237V)	2,507.8	µg/mL	+/- +/- +/-	14.5803 151.3037 151.6629	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCBJ6245V)	2,502.5	µg/mL	+/- +/- +/-	14.5498 150.9869 151.3454	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKBK3151V)	2,521.8	µg/mL	+/- +/- +/-	14.6617 152.1484 152.5096	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKBK4439V)	2,502.6	µg/mL	+/- +/- +/-	14.5505 150.9945 151.3529	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBM5751V)	2,505.8	µg/mL	+/- +/- +/-	14.5686 151.1830 151.5419	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBS1350V)	2,504.1	µg/mL	+/- +/- +/-	14.5592 151.0850 151.4437	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09418JJV)	2,503.3	µg/mL	+/- +/- +/-	14.5541 151.0322 151.3907	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot SHBD7331V)	2,505.5	µg/mL	+/- +/- +/-	14.5672 151.1679 151.5268	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 99%	(Lot FBI.01-JM)	2,508.6	µg/mL	+/- +/- +/-	14.5854 151.3565 151.7158	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot 26896BM)	2,518.6	µg/mL	+/- +/- +/-	14.6435 151.9598 152.3206	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 98%	(Lot J31X013)	2,499.9	µg/mL	+/- +/- +/-	14.5344 150.8275 151.1856	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBH4351V)	2,514.9	µg/mL	+/- +/- +/-	14.6217 151.7336 152.0938	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

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

Page 115 of 467

Reagent

8260MegaMix_00048



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569720 Lot No.: A0118177
Description : 8260 List 1 / Std #1 MegaMix (2015)
8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol, 1 mL/vampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : March 31, 2018 Storage: 0°C or colder

REC'D 12-12-16
JDT

1074879-881

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Diethyl ether (ethyl ether) CAS # 60-29-7 (Lot SHBG1462V) Purity 99%	2,503.5 µg/mL	+/- 14.5556 µg/mL Gravimetric +/- 151.0472 µg/mL Unstressed +/- 151.4059 µg/mL Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) CAS # 76-13-1 (Lot 00004562) Purity 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL Gravimetric +/- 150.8361 µg/mL Unstressed +/- 151.1942 µg/mL Stressed
3	1,1-Dichloroethane CAS # 75-34-3 (Lot 00008621) Purity 99%	2,500.1 µg/mL	+/- 14.5359 µg/mL Gravimetric +/- 150.8436 µg/mL Unstressed +/- 151.2017 µg/mL Stressed
4	tert-Butanol (TBA) CAS # 75-65-0 (Lot SHBD0362V) Purity 99%	25,033.4 µg/mL	+/- 145.5386 µg/mL Gravimetric +/- 1,510.3737 µg/mL Unstressed +/- 1,513.9596 µg/mL Stressed
5	Iodomethane (methyl iodide) CAS # 74-88-4 (Lot SHBF2149V) Purity 98%	2,502.9 µg/mL	+/- 14.5522 µg/mL Gravimetric +/- 151.0123 µg/mL Unstressed +/- 151.3708 µg/mL Stressed
6	Methyl acetate CAS # 79-20-9 (Lot SHBD7134V) Purity 98%	12,508.6 µg/mL	+/- 72.7223 µg/mL Gravimetric +/- 754.6987 µg/mL Unstressed +/- 756.4905 µg/mL Stressed
7	Allyl chloride (3-chloropropene) CAS # 107-05-1 (Lot SHBF8133V) Purity 99%	2,500.0 µg/mL	+/- 19.2743 µg/mL Gravimetric +/- 151.3663 µg/mL Unstressed +/- 151.7231 µg/mL Stressed

8	Methylene chloride (dichloromethane) CAS # 75-09-2 (Lot SHBF9870V) Purity 99%	2,521.4 µg/mL	+/- +/- +/-	14.6595 152.1257 152.4869	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Carbon disulfide CAS # 75-15-0 (Lot S20A856) Purity 99%	2,516.0 µg/mL	+/- +/- +/-	14.6282 151.8014 152.1618	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Acrylonitrile CAS # 107-13-1 (Lot J08Z057) Purity 99%	25,001.3 µg/mL	+/- +/- +/-	145.3518 1,508.4355 1,512.0167	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	cis-1,2-Dichloroethene CAS # 156-59-2 (Lot MKBV2831V) Purity 98%	2,507.8 µg/mL	+/- +/- +/-	14.5807 151.3079 151.6671	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Hexane (C6) CAS # 110-54-3 (Lot SHBF7674V) Purity 99%	2,512.4 µg/mL	+/- +/- +/-	14.6072 151.5827 151.9426	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	1,1-dichloroethene CAS # 75-35-4 (Lot 73896KMV) Purity 99%	2,508.1 µg/mL	+/- +/- +/-	14.5825 151.3263 151.6856	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	2,2-Dichloropropane CAS # 594-20-7 (Lot BCBL9720V) Purity 99%	2,507.6 µg/mL	+/- +/- +/-	14.5795 151.2961 151.6553	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	trans-1,2-Dichloroethene CAS # 156-60-5 (Lot MKBH9850V) Purity 99%	2,509.8 µg/mL	+/- +/- +/-	14.5919 151.4243 151.7838	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	Isobutanol (2-Methyl-1-propanol) CAS # 78-83-1 (Lot SHBD1647V) Purity 99%	62,815.4 µg/mL	+/- +/- +/-	365.1949 3,789.9281 3,798.9260	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Methyl-tert-butyl ether (MTBE) CAS # 1634-04-4 (Lot MKBV2134V) Purity 99%	2,510.0 µg/mL	+/- +/- +/-	14.5934 151.4394 151.7990	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Bromochloromethane CAS # 74-97-5 (Lot 00004559) Purity 99%	2,507.0 µg/mL	+/- +/- +/-	14.5759 151.2584 151.6175	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	Tetrahydrofuran CAS # 109-99-9 (Lot SHBG2910V) Purity 99%	5,025.3 µg/mL	+/- +/- +/-	29.2172 303.1956 303.9154	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	1,1,1-trichloroethane CAS # 71-55-6 (Lot B15MW0705) Purity 99%	2,508.9 µg/mL	+/- +/- +/-	14.5868 151.3715 151.7309	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	Cyclohexane CAS # 110-82-7 (Lot MKBV3194V) Purity 99%	2,503.4 µg/mL	+/- +/- +/-	14.5548 151.0397 151.3983	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	1,1-Dichloropropene CAS # 563-58-6 (Lot PR09161302) Purity 99%	2,507.4 µg/mL	+/- +/- +/-	14.5781 151.2810 151.6402	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	carbon tetrachloride CAS # 56-23-5 (Lot SHBG1763V) Purity 99%	2,505.9 µg/mL	+/- +/- +/-	14.5694 151.1905 151.5495	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	n-Heptane (C7) CAS # 142-82-5 Purity 99%	(Lot MKBV6176V)	2,510.8	µg/mL	+/- +/- +/-	14.5977 151.4847 151.8443	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot MKBV4565V)	2,511.1	µg/mL	+/- +/- +/-	14.5999 151.5073 151.8670	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Benzene CAS # 71-43-2 Purity 99%	(Lot SHBG1169V)	2,502.9	µg/mL	+/- +/- +/-	14.5519 151.0095 151.3681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBF0943V)	2,500.4	µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Methylcyclohexane CAS # 108-87-2 Purity 99%	(Lot 50996APV)	2,503.9	µg/mL	+/- +/- +/-	14.5577 151.0699 151.4285	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot 01113D0V)	2,523.5	µg/mL	+/- +/- +/-	14.6718 152.2539 152.6154	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	bromodichloromethane CAS # 75-27-4 Purity 98%	(Lot MKBL1617V)	2,509.0	µg/mL	+/- +/- +/-	14.5878 151.3818 151.7412	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane CAS # 123-91-1 Purity 99%	(Lot SHBG6312V)	50,018.1	µg/mL	+/- +/- +/-	290.7945 3,017.8137 3,024.9785	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane CAS # 74-95-3 Purity 98%	(Lot 10183283)	2,511.4	µg/mL	+/- +/- +/-	14.6013 151.5222 151.8820	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot 22622)	2,506.0	µg/mL	+/- +/- +/-	14.5701 151.1981 151.5571	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene CAS # 108-88-3 Purity 99%	(Lot MKBV5601V)	2,515.5	µg/mL	+/- +/- +/-	14.6253 151.7713 152.1316	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate CAS # 97-63-2 Purity 99%	(Lot SHBD9190V)	2,503.1	µg/mL	+/- +/- +/-	14.5534 151.0246 151.3832	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 99%	(Lot C584177)	2,508.0	µg/mL	+/- +/- +/-	14.5817 151.3188 151.6780	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	2,508.4	µg/mL	+/- +/- +/-	14.5839 151.3414 151.7007	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBG2162V)	2,522.8	µg/mL	+/- +/- +/-	14.6675 152.2087 152.5701	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBD9374V)	2,518.9	µg/mL	+/- +/- +/-	14.6450 151.9749 152.3357	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane CAS # 124-48-1 Purity 98%	(Lot MKBQ6577V)	2,505.4 µg/mL	+/- +/- +/-	14.5664 151.1601 151.5190	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) CAS # 106-93-4 Purity 99%	(Lot BCBH3877V)	2,505.1 µg/mL	+/- +/- +/-	14.5650 151.1453 151.5041	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene CAS # 108-90-7 Purity 99%	(Lot SHBF0505V)	2,505.6 µg/mL	+/- +/- +/-	14.5679 151.1755 151.5344	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	1,1,2,2-Tetrachloroethane CAS # 79-34-5 Purity 99%	(Lot CFA4D)	2,505.1 µg/mL	+/- +/- +/-	14.5650 151.1453 151.5041	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	Ethylbenzene CAS # 100-41-4 Purity 99%	(Lot SHBG5920V)	2,506.1 µg/mL	+/- +/- +/-	14.5708 151.2056 151.5646	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	m-Xylene CAS # 108-38-3 Purity 99%	(Lot SHBF8095V)	1,254.4 µg/mL	+/- +/- +/-	7.2930 75.6820 75.8617	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	p-Xylene CAS # 106-42-3 Purity 99%	(Lot SHBF3427V)	1,250.0 µg/mL	+/- +/- +/-	7.2676 75.4180 75.5971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene CAS # 95-47-6 Purity 99%	(Lot SHBF7003V)	2,506.3 µg/mL	+/- +/- +/-	14.5716 151.2132 151.5722	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene CAS # 100-42-5 Purity 99%	(Lot MKBS7097V)	2,503.9 µg/mL	+/- +/- +/-	14.5577 151.0699 151.4285	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) CAS # 98-82-8 Purity 99%	(Lot 10185056)	2,509.4 µg/mL	+/- +/- +/-	14.5897 151.4017 151.7612	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform CAS # 75-25-2 Purity 99%	(Lot SHBC3410V)	2,503.3 µg/mL	+/- +/- +/-	14.5541 151.0322 151.3907	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	1,1,1,2-Tetrachloroethane CAS # 630-20-6 Purity 99%	(Lot MKBS3769V)	2,505.0 µg/mL	+/- +/- +/-	14.5643 151.1378 151.4966	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	chloroform CAS # 67-66-3 Purity 99%	(Lot MKBV2089V)	2,507.8 µg/mL	+/- +/- +/-	14.5803 151.3037 151.6629	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane CAS # 96-18-4 Purity 99%	(Lot BCBH8722V)	2,504.8 µg/mL	+/- +/- +/-	14.5628 151.1227 151.4815	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene CAS # 110-57-6 Purity 95%	(Lot MKBP6041V)	2,499.7 µg/mL	+/- +/- +/-	14.5334 150.8172 151.1753	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene CAS # 103-65-1 Purity 99%	(Lot MKBJ0332V)	2,507.5 µg/mL	+/- +/- +/-	14.5788 151.2886 151.6478	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene CAS # 108-86-1 Purity 99%	(Lot MKBD4032V)	2,515.1 µg/mL	+/- +/- +/-	14.6232 151.7486 152.1089	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 98%	(Lot MKBJ6229V)	2,503.7 µg/mL	+/- +/- +/-	14.5565 151.0566 151.4152	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKBH8892V)	2,502.1 µg/mL	+/- +/- +/-	14.5476 150.9643 151.3227	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKBL7753V)	2,512.6 µg/mL	+/- +/- +/-	14.6086 151.5978 151.9577	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot S52237V)	2,507.8 µg/mL	+/- +/- +/-	14.5803 151.3037 151.6629	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCBJ6245V)	2,502.5 µg/mL	+/- +/- +/-	14.5498 150.9869 151.3454	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKBK3151V)	2,521.8 µg/mL	+/- +/- +/-	14.6617 152.1484 152.5096	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKBK4439V)	2,502.6 µg/mL	+/- +/- +/-	14.5505 150.9945 151.3529	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBM5751V)	2,505.8 µg/mL	+/- +/- +/-	14.5686 151.1830 151.5419	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBS1350V)	2,504.1 µg/mL	+/- +/- +/-	14.5592 151.0850 151.4437	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09418JJV)	2,503.3 µg/mL	+/- +/- +/-	14.5541 151.0322 151.3907	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot SHBD7331V)	2,505.5 µg/mL	+/- +/- +/-	14.5672 151.1679 151.5268	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 99%	(Lot FBL01-JM)	2,508.6 µg/mL	+/- +/- +/-	14.5854 151.3565 151.7158	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot 26896BM)	2,518.6 µg/mL	+/- +/- +/-	14.6435 151.9598 152.3206	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 98%	(Lot J31X013)	2,499.9 µg/mL	+/- +/- +/-	14.5344 150.8275 151.1856	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKBH4351V)	2,514.9 µg/mL	+/- +/- +/-	14.6217 151.7336 152.0938	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,502.0 µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBS4859V)		+/-	150.9567	µg/mL	Unstressed
	Purity 99%			+/-	151.3151	µg/mL	Stressed

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

Column:

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

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

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

Inj. Temp:

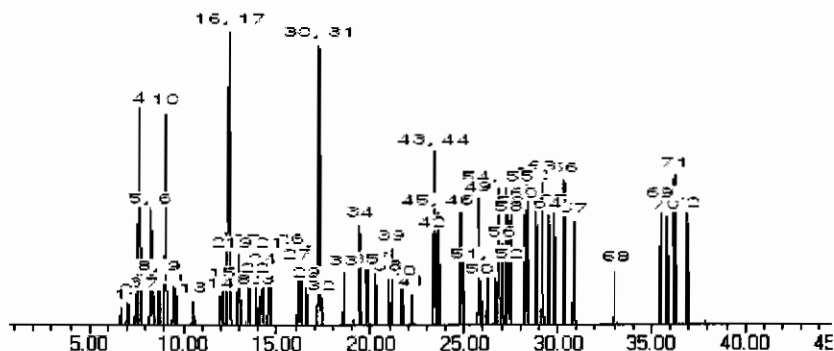
200°C

Det. Temp:

250°C

Det. Type:

MSD



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

Rebecca Sawyer

Date Mixed: 21-Mar-2016 **Balance:** 1125113331

Jodi E. Breon

Jodi E. Breon - QA Analyst

Date Passed: 28-Mar-2016

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

Reagent

8260MegaMixSS_00045



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 569720.sec Lot No.: A0120604
Description: 8260 List 1 / Std #1 MegaMix (2015)
8260 List 1 / Std #1 MegaMix (2015) 1250-62500 µg/ml, P&T Methanol. 1 ml/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: July 31, 2018 Storage: 0°C or colder

REC'D 9-24-16
JDH
1022749-801

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) CAS # 60-29-7.SEC (Lot F23X068) Purity 98%	2,501.1 µg/mL	+/- 14.5415 µg/mL +/- 150.9014 µg/mL +/- 151.2597 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) CAS # 76-13-1.SEC (Lot 18342) Purity 99%	2,501.1 µg/mL	+/- 14.5418 µg/mL +/- 150.9040 µg/mL +/- 151.2622 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene CAS # 75-35-4.SEC (Lot 2767000) Purity 99%	2,500.8 µg/mL	+/- 14.5396 µg/mL +/- 150.8813 µg/mL +/- 151.2395 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) CAS # 75-65-0.SEC (Lot XYXDO) Purity 98%	25,004.1 µg/mL	+/- 145.3683 µg/mL +/- 1,508.6067 µg/mL +/- 1,512.1884 µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) CAS # 74-88-4.SEC (Lot Y25A027) Purity 99%	2,501.0 µg/mL	+/- 14.5410 µg/mL +/- 150.8964 µg/mL +/- 151.2547 µg/mL	Gravimetric Unstressed Stressed
6	Methyl acetate CAS # 79-20-9.SEC (Lot 6WOXM) Purity 99%	12,501.6 µg/mL	+/- 72.6817 µg/mL +/- 754.2781 µg/mL +/- 756.0689 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) CAS # 107-05-1.SEC (Lot VEBOC) Purity 98%	2,501.0 µg/mL	+/- 14.5408 µg/mL +/- 150.8940 µg/mL +/- 151.2522 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) CAS # 75-09-2.SEC (Lot FGM02) Purity 99%	2,501.1 µg/mL	+/-	14.5418	µg/mL	Gravimetric
			+/-	150.9040	µg/mL	Unstressed
			+/-	151.2622	µg/mL	Stressed
9	Carbon disulfide CAS # 75-15-0.SEC (Lot MKBL1376V) Purity 99%	2,500.5 µg/mL	+/-	14.5381	µg/mL	Gravimetric
			+/-	150.8662	µg/mL	Unstressed
			+/-	151.2244	µg/mL	Stressed
10	Acrylonitrile CAS # 107-13-1.SEC (Lot UERIL-DA) Purity 99%	25,020.0 µg/mL	+/-	145.4608	µg/mL	Gravimetric
			+/-	1,509.5667	µg/mL	Unstressed
			+/-	1,513.1507	µg/mL	Stressed
11	cis-1,2-Dichloroethene CAS # 156-59-2.SEC (Lot HGC01-BLKT) Purity 98%	2,500.8 µg/mL	+/-	14.5401	µg/mL	Gravimetric
			+/-	150.8866	µg/mL	Unstressed
			+/-	151.2448	µg/mL	Stressed
12	n-Hexane (C6) CAS # 110-54-3.SEC (Lot 10188491) Purity 99%	2,501.1 µg/mL	+/-	14.5418	µg/mL	Gravimetric
			+/-	150.9040	µg/mL	Unstressed
			+/-	151.2622	µg/mL	Stressed
13	1,1-Dichloroethane CAS # 75-34-3.SEC (Lot 5035700) Purity 99%	2,501.1 µg/mL	+/-	14.5418	µg/mL	Gravimetric
			+/-	150.9040	µg/mL	Unstressed
			+/-	151.2622	µg/mL	Stressed
14	2,2-Dichloropropane CAS # 594-20-7.SEC (Lot GI01) Purity 99%	2,500.6 µg/mL	+/-	14.5388	µg/mL	Gravimetric
			+/-	150.8738	µg/mL	Unstressed
			+/-	151.2320	µg/mL	Stressed
15	trans-1,2-Dichloroethene CAS # 156-60-5.SEC (Lot TS5UB) Purity 97%	2,501.3 µg/mL	+/-	14.5426	µg/mL	Gravimetric
			+/-	150.9125	µg/mL	Unstressed
			+/-	151.2708	µg/mL	Stressed
16	Isobutanol (2-Methyl-1-propanol) CAS # 78-83-1.SEC (Lot 83NHH) Purity 99%	62,503.0 µg/mL	+/-	363.3788	µg/mL	Gravimetric
			+/-	3,771.0811	µg/mL	Unstressed
			+/-	3,780.0343	µg/mL	Stressed
17	Methyl-tert-butyl ether (MTBE) CAS # 1634-04-4.SEC (Lot ZAQTA-MS) Purity 99%	2,501.0 µg/mL	+/-	14.5410	µg/mL	Gravimetric
			+/-	150.8964	µg/mL	Unstressed
			+/-	151.2547	µg/mL	Stressed
18	Bromochloromethane CAS # 74-97-5.SEC (Lot 1775400) Purity 99%	2,500.4 µg/mL	+/-	14.5374	µg/mL	Gravimetric
			+/-	150.8587	µg/mL	Unstressed
			+/-	151.2169	µg/mL	Stressed
19	Tetrahydrofuran CAS # 109-99-9.SEC (Lot K3V7J-SJ) Purity 99%	5,000.3 µg/mL	+/-	29.0719	µg/mL	Gravimetric
			+/-	301.6872	µg/mL	Unstressed
			+/-	302.4035	µg/mL	Stressed
20	1,1,1-Trichloroethane CAS # 71-55-6.SEC (Lot CS160712) Purity 98%	2,501.3 µg/mL	+/-	14.5429	µg/mL	Gravimetric
			+/-	150.9162	µg/mL	Unstressed
			+/-	151.2745	µg/mL	Stressed
21	Cyclohexane CAS # 110-82-7.SEC (Lot YADRA) Purity 99%	2,500.3 µg/mL	+/-	14.5367	µg/mL	Gravimetric
			+/-	150.8512	µg/mL	Unstressed
			+/-	151.2093	µg/mL	Stressed
22	1,1-Dichloropropene CAS # 563-58-6.SEC (Lot 4672600) Purity 96%	2,500.4 µg/mL	+/-	14.5378	µg/mL	Gravimetric
			+/-	150.8626	µg/mL	Unstressed
			+/-	151.2208	µg/mL	Stressed
23	Carbon tetrachloride CAS # 56-23-5.SEC (Lot 11466) Purity 99%	2,500.5 µg/mL	+/-	14.5381	µg/mL	Gravimetric
			+/-	150.8662	µg/mL	Unstressed
			+/-	151.2244	µg/mL	Stressed

24	n-Heptane (C7) CAS # 142-82-5.SEC Purity 99%	(Lot OGM01)	2.500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1,2-Dichloroethane CAS # 107-06-2.SEC Purity 99%	(Lot FO6PK)	2.501.3	µg/mL	+/- +/- +/-	14.5425 150.9115 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Benzene CAS # 71-43-2.SEC Purity 99%	(Lot B28Y008)	2.500.6	µg/mL	+/- +/- +/-	14.5388 150.8738 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Trichloroethene CAS # 79-01-6.SEC Purity 99%	(Lot H04X050)	2.500.4	µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Methyleyclohexane CAS # 108-87-2.SEC Purity 99%	(Lot 24MSD-CD)	2.501.9	µg/mL	+/- +/- +/-	14.5461 150.9492 151.3076	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1,2-Dichloropropane CAS # 78-87-5.SEC Purity 99%	(Lot OGG01)	2.500.8	µg/mL	+/- +/- +/-	14.5396 150.8813 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	Bromodichloromethane CAS # 75-27-4.SEC Purity 99%	(Lot 10171168)	2.500.4	µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane CAS # 123-91-1.SEC Purity 99%	(Lot CHA4A)	50.014.8	µg/mL	+/- +/- +/-	290.7749 3,017.6100 3,024.7743	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane CAS # 74-95-3.SEC Purity 99%	(Lot FGI01-OICH)	2.501.4	µg/mL	+/- +/- +/-	14.5432 150.9190 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5.SEC Purity 99%	(Lot 7ZLXJ-TJ)	2.500.8	µg/mL	+/- +/- +/-	14.5396 150.8813 151.2395	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene CAS # 108-88-3.SEC Purity 99%	(Lot YND2B-BD)	2.501.3	µg/mL	+/- +/- +/-	14.5425 150.9115 151.2698	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate CAS # 97-63-2.SEC Purity 99%	(Lot MLWYK-LS)	2.501.6	µg/mL	+/- +/- +/-	14.5447 150.9341 151.2925	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6.SEC Purity 99%	(Lot 2ECIC)	2.500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5.SEC Purity 98%	(Lot 3440900)	2.500.5	µg/mL	+/- +/- +/-	14.5379 150.8644 151.2226	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane CAS # 142-28-9.SEC Purity 99%	(Lot AGN01-EFPC)	2.501.0	µg/mL	+/- +/- +/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene CAS # 127-18-4.SEC Purity 99%	(Lot F09W014)	2.501.5	µg/mL	+/- +/- +/-	14.5439 150.9266 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	Dibromochloromethane CAS # 124-48-1.SEC Purity 97%	(Lot 10181507)	2,501.9 µg/mL	+/- +/- +/-	14.5461 150.9491 151.3074	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) CAS # 106-93-4.SEC Purity 99%	(Lot 3505900)	2,500.1 µg/mL	+/- +/- +/-	14.5359 150.8436 151.2017	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene CAS # 108-90-7.SEC Purity 99%	(Lot 1161936)	2,501.5 µg/mL	+/- +/- +/-	14.5439 150.9266 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	1,1,1,2-Tetrachloroethane CAS # 630-20-6.SEC Purity 98%	(Lot GC01)	2,501.0 µg/mL	+/- +/- +/-	14.5408 150.8940 151.2522	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	Ethylbenzene CAS # 100-41-4.SEC Purity 99%	(Lot PI4SE)	2,501.4 µg/mL	+/- +/- +/-	14.5432 150.9190 151.2773	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	m-Xylene CAS # 108-38-3.SEC Purity 99%	(Lot OUKMG-GB)	1,250.9 µg/mL	+/- +/- +/-	7.2727 75.4708 75.6500	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	p-Xylene CAS # 106-42-3.SEC Purity 99%	(Lot GM01)	1,250.8 µg/mL	+/- +/- +/-	7.2720 75.4633 75.6425	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene CAS # 95-47-6.SEC Purity 99%	(Lot FGL01-KTPK)	2,501.0 µg/mL	+/- +/- +/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene CAS # 100-42-5.SEC Purity 99%	(Lot OFIOL-IA)	2,500.4 µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) CAS # 98-82-8.SEC Purity 99%	(Lot 2PHXG-IH)	2,500.4 µg/mL	+/- +/- +/-	14.5374 150.8587 151.2169	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	Bromoform CAS # 75-25-2.SEC Purity 99%	(Lot 5139000)	2,500.3 µg/mL	+/- +/- +/-	14.5367 150.8512 151.2093	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	1,1,2,2-Tetrachloroethane CAS # 79-34-5.SEC Purity 99%	(Lot CFA4D-AQ)	2,500.5 µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	Chloroform CAS # 67-66-3.SEC Purity 99%	(Lot 1297547)	2,500.6 µg/mL	+/- +/- +/-	14.5388 150.8738 151.2320	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane CAS # 96-18-4.SEC Purity 98%	(Lot OGI01)	2,501.5 µg/mL	+/- +/- +/-	14.5436 150.9236 151.2819	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-Dichloro-2-butene CAS # 110-57-6.SEC Purity 98%	(Lot 100700-3)	2,500.5 µg/mL	+/- +/- +/-	14.5379 150.8644 151.2226	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene CAS # 103-65-1.SEC Purity 99%	(Lot T2HFC-1T)	2,500.0 µg/mL	+/- +/- +/-	14.5352 150.8361 151.1942	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene CAS # 108-86-1.SEC Purity 99%	(Lot 2FUHG-EM)	2,501.0 µg/mL	+/-	14.5410 µg/mL	Gravimetric
				+/-	150.8964 µg/mL	Unstressed
				+/-	151.2547 µg/mL	Stressed
57	1,2,4-Trimethylbenzene CAS # 95-63-6.SEC Purity 99%	(Lot SC7LO-QA)	2,500.6 µg/mL	+/-	14.5388 µg/mL	Gravimetric
				+/-	150.8738 µg/mL	Unstressed
				+/-	151.2320 µg/mL	Stressed
58	2-Chlorotoluene CAS # 95-49-8.SEC Purity 99%	(Lot SW8QG-AO)	2,500.6 µg/mL	+/-	14.5388 µg/mL	Gravimetric
				+/-	150.8738 µg/mL	Unstressed
				+/-	151.2320 µg/mL	Stressed
59	4-Chlorotoluene CAS # 106-43-4.SEC Purity 99%	(Lot P4XHJ-AO)	2,500.9 µg/mL	+/-	14.5403 µg/mL	Gravimetric
				+/-	150.8889 µg/mL	Unstressed
				+/-	151.2471 µg/mL	Stressed
60	tert-Butylbenzene CAS # 98-06-6.SEC Purity 99%	(Lot OGN01-CAI)	2,500.5 µg/mL	+/-	14.5381 µg/mL	Gravimetric
				+/-	150.8662 µg/mL	Unstressed
				+/-	151.2244 µg/mL	Stressed
61	1,3,5-Trimethylbenzene CAS # 108-67-8.SEC Purity 99%	(Lot FGH02-CMLN)	2,500.8 µg/mL	+/-	14.5396 µg/mL	Gravimetric
				+/-	150.8813 µg/mL	Unstressed
				+/-	151.2395 µg/mL	Stressed
62	sec-Butylbenzene CAS # 135-98-8.SEC Purity 99%	(Lot OGN01-IMA)	2,500.9 µg/mL	+/-	14.5403 µg/mL	Gravimetric
				+/-	150.8889 µg/mL	Unstressed
				+/-	151.2471 µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene) CAS # 99-87-6.SEC Purity 96%	(Lot 1195000)	2,501.5 µg/mL	+/-	14.5441 µg/mL	Gravimetric
				+/-	150.9278 µg/mL	Unstressed
				+/-	151.2861 µg/mL	Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1.SEC Purity 99%	(Lot FMDFD)	2,501.6 µg/mL	+/-	14.5447 µg/mL	Gravimetric
				+/-	150.9341 µg/mL	Unstressed
				+/-	151.2925 µg/mL	Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7.SEC Purity 99%	(Lot 4Y5DC)	2,501.1 µg/mL	+/-	14.5418 µg/mL	Gravimetric
				+/-	150.9040 µg/mL	Unstressed
				+/-	151.2622 µg/mL	Stressed
66	n-Butylbenzene CAS # 104-51-8.SEC Purity 99%	(Lot OGN01-PNP)	2,501.4 µg/mL	+/-	14.5432 µg/mL	Gravimetric
				+/-	150.9190 µg/mL	Unstressed
				+/-	151.2773 µg/mL	Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1.SEC Purity 99%	(Lot 4NRGF-OT)	2,500.3 µg/mL	+/-	14.5367 µg/mL	Gravimetric
				+/-	150.8512 µg/mL	Unstressed
				+/-	151.2093 µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8.SEC Purity 97%	(Lot LC00408V)	2,500.3 µg/mL	+/-	14.5369 µg/mL	Gravimetric
				+/-	150.8539 µg/mL	Unstressed
				+/-	151.2121 µg/mL	Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1.SEC Purity 99%	(Lot 3LYYC)	2,500.4 µg/mL	+/-	14.5374 µg/mL	Gravimetric
				+/-	150.8587 µg/mL	Unstressed
				+/-	151.2169 µg/mL	Stressed
70	Hexachlorobutadiene CAS # 87-68-3.SEC Purity 98%	(Lot 4974700)	2,500.7 µg/mL	+/-	14.5394 µg/mL	Gravimetric
				+/-	150.8792 µg/mL	Unstressed
				+/-	151.2374 µg/mL	Stressed
71	Naphthalene CAS # 91-20-3.SEC Purity 99%	(Lot SKZ5N)	2,500.0 µg/mL	+/-	14.5352 µg/mL	Gravimetric
				+/-	150.8361 µg/mL	Unstressed
				+/-	151.1942 µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,501.6 µg/mL	+/-	14.5444	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/-	150.9310	µg/mL	Unstressed
	Purity 98%			+/-	151.2893	µg/mL	Stressed

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

Column:

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

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

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

Inj. Temp:

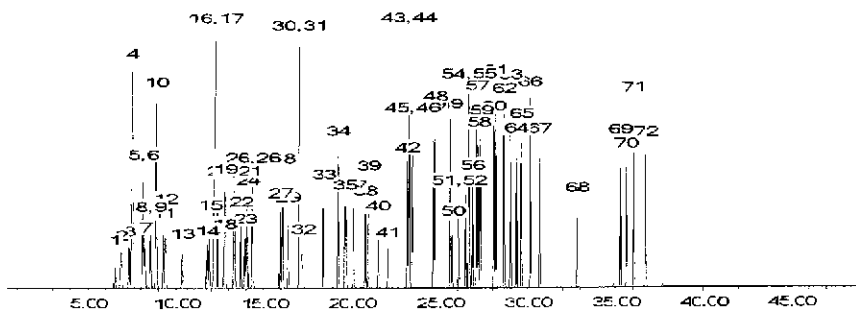
200°C

Det. Temp:

250°C

Det. Type:

MSD



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

Michael J. Mage

Date Mixed: 25-Jul-2016

Balance: 1127510105

Jennifer L. Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 28-Jul-2016

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

Reagent

8260VinAcetat_00048



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569724 Lot No.: A0120164
Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)
8260 List 1 / Std #6 Vinyl Acetate (2015) 5000 ug/ml, P&T Methanol, 1 ml/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : January 31, 2017 Storage: 0°C or colder
Handling: This product is photosensitive.

REC'D 9-24-16
JDH
1028705

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Vinyl acetate CAS # 108-05-4 Purity 99% (Lot STBD7333V)	5.007.0 µg/mL	+/- 29.3839 µg/mL Gravimetric +/- 302.1209 µg/mL Unstressed +/- 302.8381 µg/mL Stressed

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

Tech Tips:

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

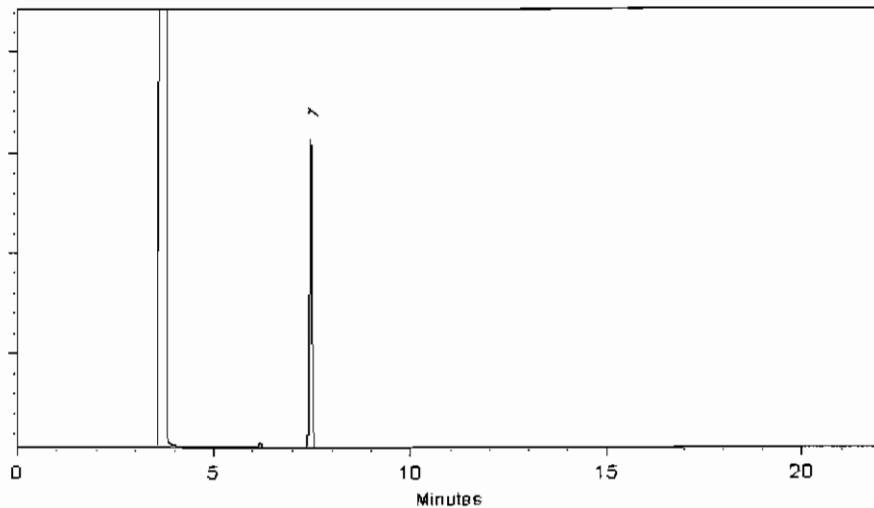
200°C

Det. Temp:

250°C

Det. Type:

FID



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

F. Joseph Tallon
F. Joseph Tallon - Mix Technician

Date Mixed: 05-Jul-2016

Balance: B251644995

Jennifer L. Pollino
Jennifer L. Pollino - QC Analyst

Date Passed: 08-Jul-2016

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

Reagent

Acrolein_00039



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)358-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568720 **Lot No.:** A0121394

Description : 8260 List 1/Std #5 Acrolein High
8260 List 1/Std #5 Acrolein High 19,750 µg/mL, Water, 1 mL/ampul

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

Expiration Date : January 31, 2017 **Storage:** 0°C or colder

Handling: This product is photosensitive.

REC'D 10-26-16
JDT
1035148-149

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acrolein CAS # 107-02-8 Purity 99% (Lot 160518JLM)	19,758.0 µg/mL	+/- 115.6874 µg/mL Gravimetric +/- 633.5036 µg/mL Unstressed +/- 736.3786 µg/mL Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

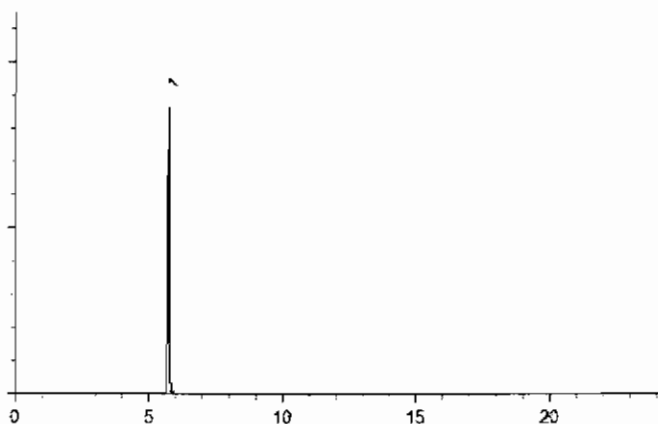
200°C

Det. Temp:

250°C

Det. Type:

FID



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


F. Joseph Tallon - Mix Technician

Date Mixed: 07-Sep-2016

Balance: B251644995


Justine Allerton - Operations Technician QC

Date Passed: 20-Oct-2016

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

Reagent

Adds (A) 2016_00008



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 570808 **Lot No.:** A0116133
Description : 8260 List 2 / Std #6
8260 List 2 / Std #6 2500-62500 µg/ml, P&T Methanol, 1 ml/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2017 **Storage:** 0°C or colder

REC'D 8-16-16
JDA

1012284-285

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol) CAS # 67-63-0 (Lot SHBF0274V) Purity 99%	25,021.0 µg/mL	+/- 145.4666 µg/mL Gravimetric +/- 1.237.7341 µg/mL Unstressed +/- 1,268.5115 µg/mL Stressed
2	Chloroprene CAS # 126-99-8.A (Lot 151210JLM) Purity 99%	2,515.8 µg/mL	+/- 14.6268 µg/mL Gravimetric +/- 124.4487 µg/mL Unstressed +/- 127.5433 µg/mL Stressed
3	Methacrylonitrile CAS # 126-98-7 (Lot 1012014) Purity 99%	25,005.8 µg/mL	+/- 145.3780 µg/mL Gravimetric +/- 1,236.9798 µg/mL Unstressed +/- 1,267.7384 µg/mL Stressed
4	2,2,4-Trimethylpentane (isooctane) CAS # 540-84-1 (Lot SHBD2922V) Purity 99%	2,501.3 µg/mL	+/- 14.5425 µg/mL Gravimetric +/- 123.7315 µg/mL Unstressed +/- 126.8081 µg/mL Stressed
5	1-Butanol CAS # 71-36-3 (Lot SHBF1679V) Purity 99%	62,520.3 µg/mL	+/- 363.4791 µg/mL Gravimetric +/- 3,092.7400 µg/mL Unstressed +/- 3,169.6438 µg/mL Stressed
6	2-Nitropropane CAS # 79-46-9 (Lot BCBB8938) Purity 97%	5,001.3 µg/mL	+/- 29.0781 µg/mL Gravimetric +/- 247.4045 µg/mL Unstressed +/- 253.5565 µg/mL Stressed
7	1-Chlorohexane CAS # 544-10-5 (Lot 05107LK) Purity 98%	2,503.2 µg/mL	+/- 14.5536 µg/mL Gravimetric +/- 123.8262 µg/mL Unstressed +/- 126.9052 µg/mL Stressed

8	1,2,3-Trimethylbenzene CAS # 526-73-8 Purity 97%	(Lot 877605-14)	2,501.4 µg/mL	+/- 14.5433 +/- 123.7383 +/- 126.8151	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride CAS # 100-44-7 Purity 99%	(Lot SHBB7346V)	2,502.0 µg/mL	+/- 14.5468 +/- 123.7686 +/- 126.8462	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene CAS # 108-70-3 Purity 99%	(Lot 11319AS)	2,500.8 µg/mL	+/- 14.5396 +/- 123.7067 +/- 126.7828	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent: P&T Methanol CAS # 67-56-1 Purity 99%						

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

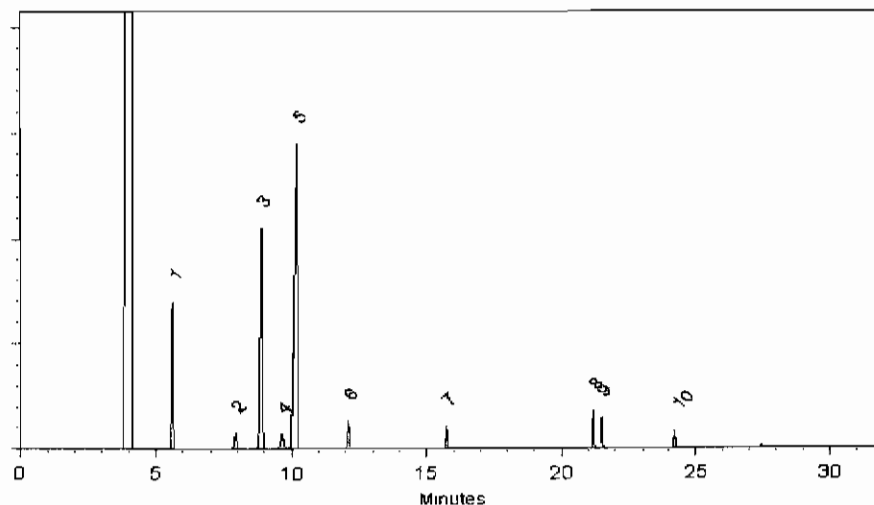
200°C

Det. Temp:

250°C

Det. Type:

FID



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

F. Joseph Tallon - Mix. Technician

Date Mixed: 28-Dec-2015

Balance: B251644995

Jennifer L. Pollino
Jennifer L. Pollino - QC Analyst

Date Passed: 29-Dec-2015

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

Reagent

Adds (B) 2016_00002



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 570809 Lot No.: A0116077
Description: 8260 List 2 / Std #7
8260 List 2 / Std #7 2500-5000 µg/ml, P&T Methanol, 1 ml/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: June 30, 2017 Storage: 0°C or colder

REC'D 8-16-16
JDH

1012286-287

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethyl acetate CAS # 141-78-6 (Lot SHBF6909V) Purity 99%	5.016.0 µg/mL	+/- 29.1635 µg/mL +/- 302.6375 µg/mL +/- 303.3560 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate CAS # 140-88-5 (Lot 10129902) Purity 99%	2.502.5 µg/mL	+/- 14.5498 µg/mL +/- 150.9869 µg/mL +/- 151.3454 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate CAS # 80-62-6 (Lot MKBN8882V) Purity 99%	5.007.8 µg/mL	+/- 29.1155 µg/mL +/- 302.1397 µg/mL +/- 302.8571 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate CAS # 123-86-4 (Lot SHBF4442V) Purity 99%	2.501.3 µg/mL	+/- 14.5425 µg/mL +/- 150.9115 µg/mL +/- 151.2698 µg/mL	Gravimetric Unstressed Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

Inj. Temp:

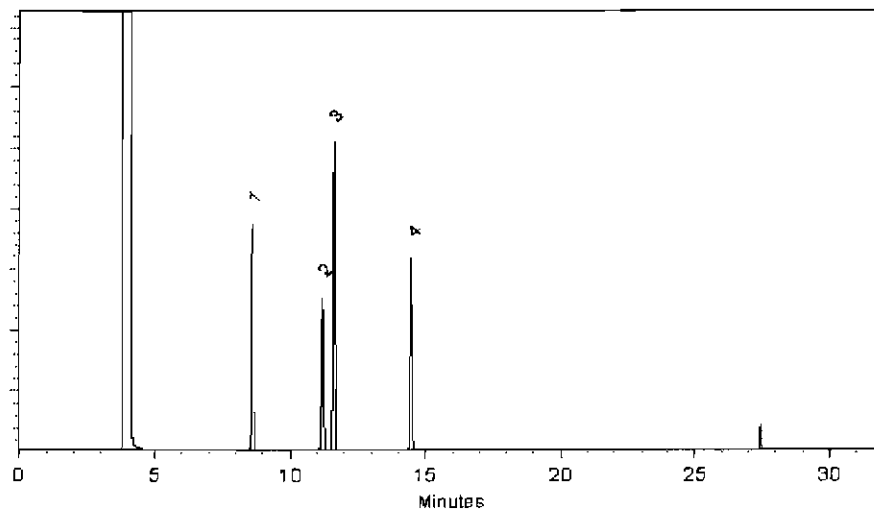
200°C

Det. Temp:

250°C

Det. Type:

FID



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

Rebecca Hawver

Date Mixed: 21-Dec-2015

Balance: 1125113331

Jennifer L. Pollino

Jennifer L. Pollino - QC Analyst

Date Passed: 22-Dec-2015

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

Reagent

Polar Add._00037



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569728 Lot No.: A0114666
Description : 8260 List 3/ Std#1 Polar Additions (2015)
8260 List 3/ Std#1 Polar Additions (2015) 2500-100,000 µg/ml, 1 ml/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : October 31, 2017 Storage: 0°C or colder

REC'D 9-24-16
JAT
1022820-822

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Ethanol CAS # 64-17-5 (Lot PG0219) Purity 99%	100.005.8 µg/ml	+/- 581.4117 µg/mL Gravimetric +/- 4.947.0657 µg/mL Unstressed +/- 5,070.0789 µg/mL Stressed
2	Acetonitrile CAS # 75-05-8 (Lot SHBB3177V) Purity 98%	25.001.0 µg/ml	+/- 145.3505 µg/mL Gravimetric +/- 1,236.7460 µg/mL Unstressed +/- 1,267.4988 µg/mL Stressed
3	Diisopropyl ether (DIPE) CAS # 108-20-3 (Lot SHBB6268V) Purity 99%	2,500.8 µg/mL	+/- 14,5396 µg/mL Gravimetric +/- 123.7067 µg/mL Unstressed +/- 126.7828 µg/mL Stressed
4	Ethyl-tert-butyl ether (ETBE) CAS # 637-92-3 (Lot MKBR1623V) Purity 99%	2,505.0 µg/mL	+/- 14,5643 µg/mL Gravimetric +/- 123.9170 µg/mL Unstressed +/- 126.9983 µg/mL Stressed
5	Propionitrile CAS # 107-12-0 (Lot BCBM6569V) Purity 99%	25.001.5 µg/ml	+/- 145.3533 µg/mL Gravimetric +/- 1,236.7695 µg/mL Unstressed +/- 1,267.5229 µg/mL Stressed
6	tert-Amyl alcohol CAS # 75-85-4 (Lot STBB1898V) Purity 99%	25.012.3 µg/mL	+/- 145.4158 µg/mL Gravimetric +/- 1,237.3013 µg/mL Unstressed +/- 1,268.0679 µg/mL Stressed
7	tert-Amyl methyl ether (TAME) CAS # 994-05-8 (Lot HMBC8037V) Purity 99%	2,503.5 µg/mL	+/- 14,5556 µg/mL Gravimetric +/- 123.8428 µg/mL Unstressed +/- 126.9222 µg/mL Stressed

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 3 min.)

Inj. Temp:

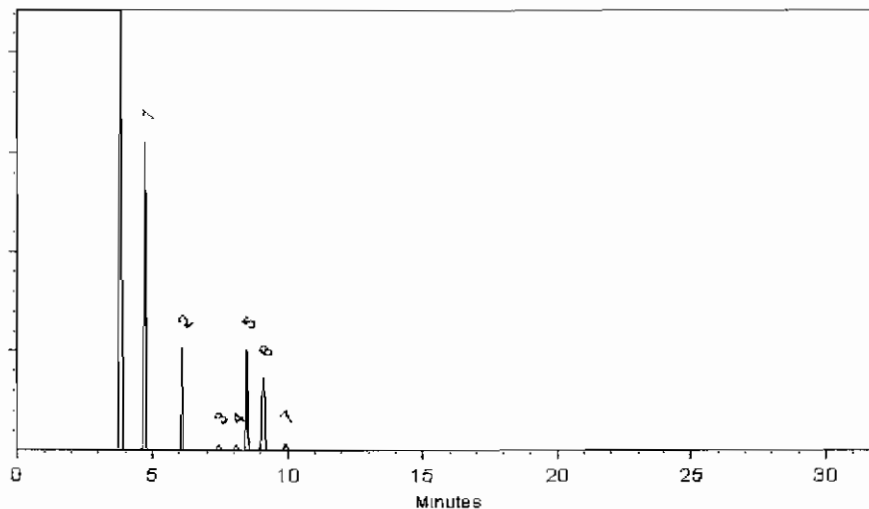
200°C

Det. Temp:

250°C

Det. Type:

FID



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

F. Joseph Tallon
F. Joseph Tallon - Mix Technician

Date Mixed: 12-Oct-2015

Balance: B251644995

Jennifer L. Pollino
Jennifer L. Pollino - QC Analyst

Date Passed: 14-Oct-2015

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

Method 8260C DOD

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): RTXVMS30 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
6MW2403	280-92896-1	110	112	97	87
6MW2203	280-92896-2	108	111	98	88
6MW2303	280-92896-3	107	108	96	86
6MW2603 RA	280-92896-4 RA	101	107	97	87
6MW2503	280-92896-5	114	114	101	91
6MW2003	280-92896-6	109	111	99	89
6MW2003D	280-92896-7	110	111	98	89
TB04	280-92896-8	112	121 Q	92	86
	MB 160-287920/7	109	112	100	90
	MB 160-288297/7	105	112	100	90
	LCS 160-287920/4	104	103	100	94
	LCS 160-288297/4	104	108	101	96
	LCSD 160-287920/5	105	102	102	95
	LCSD 160-288297/5	105	108	104	97
6MW2003MS MS	280-92896-6 MS	105	103	98	91
6MW2003MSD MSD	280-92896-6 MSD	104	103	96	91

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	80-119
DCA = 1,2-Dichloroethane-d4 (Surr)	81-118
TOL = Toluene-d8 (Surr)	89-112
BFB = 4-Bromofluorobenzene (Surr)	85-114

Column to be used to flag recovery values

FORM II 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: XLCS5170.D
 Lab ID: LCS 160-287920/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	50.2	100	78-124	
1,1,1-Trichloroethane	50.0	49.9	100	74-131	
1,1,2,2-Tetrachloroethane	50.0	45.0	90	71-121	
1,1,2-Trichloroethane	50.0	46.9	94	80-119	
1,1-Dichloroethane	50.0	47.3	95	77-125	
1,1-Dichloroethene	50.0	49.5	99	71-131	
1,1-Dichloropropene	50.0	49.0	98	79-125	
1,2,3-Trichlorobenzene	50.0	50.9	102	69-129	
1,2,3-Trichloropropane	50.0	47.1	94	73-122	
1,2,4-Trimethylbenzene	50.0	48.1	96	76-124	
1,2-Dibromo-3-Chloropropane	50.0	46.8	94	62-128	
1,2-Dibromoethane	50.0	48.3	97	80-120	
1,2-Dichloroethane	50.0	48.6	97	73-128	
1,2-Dichloropropane	50.0	47.5	95	78-122	
1,3,5-Trimethylbenzene	50.0	47.9	96	75-124	
1,3-Dichloropropane	50.0	46.5	93	80-119	
2,2-Dichloropropane	50.0	46.5	93	60-139	
2-Butanone (MEK)	50.0	49.7	99	56-143	
2-Chlorotoluene	50.0	47.5	95	79-122	
2-Hexanone	50.0	46.4	93	57-139	
4-Chlorotoluene	50.0	46.6	93	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	46.2	92	67-130	
Acetone	50.0	56.0	112	39-160	
Benzene	50.0	45.7	91	79-120	
Bromobenzene	50.0	48.0	96	80-120	
Bromochloromethane	50.0	50.4	101	78-123	
Bromodichloromethane	50.0	51.5	103	79-125	
Bromoform	50.0	54.0	108	66-130	
Bromomethane	50.0	53.0	106	53-141	
Carbon disulfide	50.0	49.1	98	64-133	
Carbon tetrachloride	50.0	52.1	104	72-136	
Chlorobenzene	50.0	48.8	98	82-118	
Chloroethane	50.0	46.4	93	60-138	
Chloroform	50.0	48.9	98	79-124	
Chloromethane	50.0	48.0	96	50-139	
cis-1,2-Dichloroethene	50.0	47.4	95	78-123	
cis-1,3-Dichloropropene	50.0	50.1	100	75-124	
Dibromochloromethane	50.0	51.5	103	74-126	
Dibromomethane	50.0	50.7	101	79-123	
Dichlorodifluoromethane	50.0	56.6	113	32-152	
Ethylbenzene	50.0	46.6	93	79-121	
Isopropylbenzene	50.0	47.7	95	72-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: XLCS5170.D
 Lab ID: LCS 160-287920/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	47.3	95	80-121	
Methyl tert-butyl ether	50.0	44.5	89	71-124	
Methylene Chloride	50.0	47.7	95	74-124	
Naphthalene	50.0	49.1	98	61-128	
n-Butylbenzene	50.0	50.7	101	75-128	
N-Propylbenzene	50.0	48.6	97	76-126	
o-Xylene	50.0	47.6	95	78-122	
p-Isopropyltoluene	50.0	49.3	99	77-127	
sec-Butylbenzene	50.0	49.1	98	77-126	
Styrene	50.0	47.1	94	78-123	
tert-Butylbenzene	50.0	48.3	97	78-124	
Tetrachloroethene	50.0	49.8	100	74-129	
Toluene	50.0	45.8	92	80-121	
trans-1,2-Dichloroethene	50.0	48.1	96	75-124	
trans-1,3-Dichloropropene	50.0	48.9	98	73-127	
Trichloroethene	50.0	49.4	99	79-123	
Trichlorofluoromethane	50.0	54.9	110	65-141	
Vinyl chloride	50.0	51.1	102	58-137	
Xylenes (total)	100	94.9	95	79-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: XLCS5233.D
 Lab ID: LCS 160-288297/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	48.3	97	78-124	
1,1,1-Trichloroethane	50.0	50.5	101	74-131	
1,1,2,2-Tetrachloroethane	50.0	48.4	97	71-121	
1,1,2-Trichloroethane	50.0	48.1	96	80-119	
1,1-Dichloroethane	50.0	48.3	97	77-125	
1,1-Dichloroethene	50.0	50.0	100	71-131	
1,1-Dichloropropene	50.0	48.9	98	79-125	
1,2,3-Trichlorobenzene	50.0	51.7	103	69-129	
1,2,3-Trichloropropane	50.0	50.2	100	73-122	
1,2,4-Trimethylbenzene	50.0	48.2	96	76-124	
1,2-Dibromo-3-Chloropropane	50.0	52.3	105	62-128	
1,2-Dibromoethane	50.0	49.5	99	80-120	
1,2-Dichloroethane	50.0	49.9	100	73-128	
1,2-Dichloropropane	50.0	49.2	98	78-122	
1,3,5-Trimethylbenzene	50.0	47.7	95	75-124	
1,3-Dichloropropane	50.0	48.2	96	80-119	
2,2-Dichloropropane	50.0	46.2	92	60-139	
2-Butanone (MEK)	50.0	55.4	111	56-143	
2-Chlorotoluene	50.0	47.1	94	79-122	
2-Hexanone	50.0	52.3	105	57-139	
4-Chlorotoluene	50.0	46.8	94	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	51.4	103	67-130	
Acetone	50.0	59.4	119	39-160	
Benzene	50.0	45.8	92	79-120	
Bromobenzene	50.0	47.0	94	80-120	
Bromochloromethane	50.0	49.8	100	78-123	
Bromodichloromethane	50.0	51.0	102	79-125	
Bromoform	50.0	53.8	108	66-130	
Bromomethane	50.0	60.1	120	53-141	
Carbon disulfide	50.0	50.0	100	64-133	
Carbon tetrachloride	50.0	51.4	103	72-136	
Chlorobenzene	50.0	48.0	96	82-118	
Chloroethane	50.0	52.6	105	60-138	
Chloroform	50.0	48.3	97	79-124	
Chloromethane	50.0	51.7	103	50-139	
cis-1,2-Dichloroethene	50.0	47.7	95	78-123	
cis-1,3-Dichloropropene	50.0	50.4	101	75-124	
Dibromochloromethane	50.0	51.1	102	74-126	
Dibromomethane	50.0	50.3	101	79-123	
Dichlorodifluoromethane	50.0	58.0	116	32-152	
Ethylbenzene	50.0	45.4	91	79-121	
Isopropylbenzene	50.0	47.1	94	72-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: XLCS5233.D
 Lab ID: LCS 160-288297/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	46.5	93	80-121	
Methyl tert-butyl ether	50.0	46.8	94	71-124	
Methylene Chloride	50.0	48.8	98	74-124	
Naphthalene	50.0	53.6	107	61-128	
n-Butylbenzene	50.0	49.9	100	75-128	
N-Propylbenzene	50.0	48.2	96	76-126	
o-Xylene	50.0	47.3	95	78-122	
p-Isopropyltoluene	50.0	48.8	98	77-127	
sec-Butylbenzene	50.0	49.2	98	77-126	
Styrene	50.0	47.4	95	78-123	
tert-Butylbenzene	50.0	47.7	95	78-124	
Tetrachloroethene	50.0	48.0	96	74-129	
Toluene	50.0	45.3	91	80-121	
trans-1,2-Dichloroethene	50.0	48.8	98	75-124	
trans-1,3-Dichloropropene	50.0	49.0	98	73-127	
Trichloroethene	50.0	49.9	100	79-123	
Trichlorofluoromethane	50.0	58.0	116	65-141	
Vinyl chloride	50.0	54.8	110	58-137	
Xylenes (total)	100	93.8	94	79-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: XLCS5171.D
 Lab ID: LCSD 160-287920/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	50.2	100	0	20	78-124	
1,1,1-Trichloroethane	50.0	51.1	102	2	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	44.2	88	2	20	71-121	
1,1,2-Trichloroethane	50.0	47.2	94	1	20	80-119	
1,1-Dichloroethane	50.0	48.0	96	1	20	77-125	
1,1-Dichloroethene	50.0	49.8	100	1	20	71-131	
1,1-Dichloropropene	50.0	49.4	99	1	20	79-125	
1,2,3-Trichlorobenzene	50.0	51.8	104	2	20	69-129	
1,2,3-Trichloropropane	50.0	46.4	93	2	20	73-122	
1,2,4-Trimethylbenzene	50.0	48.7	97	1	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	46.3	93	1	20	62-128	
1,2-Dibromoethane	50.0	46.6	93	4	20	80-120	
1,2-Dichloroethane	50.0	48.6	97	0	20	73-128	
1,2-Dichloropropane	50.0	48.0	96	1	20	78-122	
1,3,5-Trimethylbenzene	50.0	49.0	98	2	20	75-124	
1,3-Dichloropropane	50.0	46.8	94	1	20	80-119	
2,2-Dichloropropane	50.0	46.5	93	0	20	60-139	
2-Butanone (MEK)	50.0	47.1	94	5	20	56-143	
2-Chlorotoluene	50.0	48.4	97	2	20	79-122	
2-Hexanone	50.0	44.1	88	5	20	57-139	
4-Chlorotoluene	50.0	47.9	96	3	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	44.6	89	3	20	67-130	
Acetone	50.0	50.1	100	11	20	39-160	
Benzene	50.0	46.1	92	1	20	79-120	
Bromobenzene	50.0	48.4	97	1	20	80-120	
Bromochloromethane	50.0	50.7	101	1	20	78-123	
Bromodichloromethane	50.0	51.4	103	0	20	79-125	
Bromoform	50.0	53.0	106	2	20	66-130	
Bromomethane	50.0	54.6	109	3	20	53-141	
Carbon disulfide	50.0	49.3	99	0	20	64-133	
Carbon tetrachloride	50.0	53.6	107	3	20	72-136	
Chlorobenzene	50.0	49.8	100	2	20	82-118	
Chloroethane	50.0	47.5	95	2	20	60-138	
Chloroform	50.0	49.1	98	1	20	79-124	
Chloromethane	50.0	48.9	98	2	20	50-139	
cis-1,2-Dichloroethene	50.0	48.5	97	2	20	78-123	
cis-1,3-Dichloropropene	50.0	50.6	101	1	20	75-124	
Dibromochloromethane	50.0	51.1	102	1	20	74-126	
Dibromomethane	50.0	50.1	100	1	20	79-123	
Dichlorodifluoromethane	50.0	55.5	111	2	20	32-152	
Ethylbenzene	50.0	47.6	95	2	20	79-121	
Isopropylbenzene	50.0	48.9	98	2	20	72-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: XLCS5171.D
 Lab ID: LCSD 160-287920/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
m,p-Xylenes	50.0	48.1	96	2	20	80-121	
Methyl tert-butyl ether	50.0	44.2	88	1	20	71-124	
Methylene Chloride	50.0	48.5	97	2	20	74-124	
Naphthalene	50.0	48.9	98	1	20	61-128	
n-Butylbenzene	50.0	51.7	103	2	20	75-128	
N-Propylbenzene	50.0	49.8	100	2	20	76-126	
o-Xylene	50.0	49.2	98	3	20	78-122	
p-Isopropyltoluene	50.0	50.9	102	3	20	77-127	
sec-Butylbenzene	50.0	50.2	100	2	20	77-126	
Styrene	50.0	48.1	96	2	20	78-123	
tert-Butylbenzene	50.0	49.5	99	3	20	78-124	
Tetrachloroethene	50.0	50.5	101	1	20	74-129	
Toluene	50.0	46.4	93	1	20	80-121	
trans-1,2-Dichloroethene	50.0	48.7	97	1	20	75-124	
trans-1,3-Dichloropropene	50.0	48.7	97	0	20	73-127	
Trichloroethene	50.0	50.6	101	2	20	79-123	
Trichlorofluoromethane	50.0	55.7	111	1	20	65-141	
Vinyl chloride	50.0	51.7	103	1	20	58-137	
Xylenes (total)	100	97.3	97	2	20	79-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: XLCS5234.D
 Lab ID: LCSD 160-288297/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	50.7	101	5	20	78-124	
1,1,1-Trichloroethane	50.0	51.0	102	1	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	50.2	100	4	20	71-121	
1,1,2-Trichloroethane	50.0	51.1	102	6	20	80-119	
1,1-Dichloroethane	50.0	49.4	99	2	20	77-125	
1,1-Dichloroethene	50.0	49.8	100	0	20	71-131	
1,1-Dichloropropene	50.0	50.2	100	2	20	79-125	
1,2,3-Trichlorobenzene	50.0	53.5	107	3	20	69-129	
1,2,3-Trichloropropane	50.0	52.7	105	5	20	73-122	
1,2,4-Trimethylbenzene	50.0	49.8	100	3	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	53.1	106	1	20	62-128	
1,2-Dibromoethane	50.0	51.2	102	3	20	80-120	
1,2-Dichloroethane	50.0	51.5	103	3	20	73-128	
1,2-Dichloropropane	50.0	50.5	101	2	20	78-122	
1,3,5-Trimethylbenzene	50.0	49.4	99	4	20	75-124	
1,3-Dichloropropane	50.0	50.9	102	6	20	80-119	
2,2-Dichloropropane	50.0	47.7	95	3	20	60-139	
2-Butanone (MEK)	50.0	58.0	116	5	20	56-143	
2-Chlorotoluene	50.0	49.1	98	4	20	79-122	
2-Hexanone	50.0	56.7	113	8	20	57-139	
4-Chlorotoluene	50.0	48.7	97	4	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	55.3	111	7	20	67-130	
Acetone	50.0	62.2	124	5	20	39-160	
Benzene	50.0	46.9	94	2	20	79-120	
Bromobenzene	50.0	49.3	99	5	20	80-120	
Bromochloromethane	50.0	51.3	103	3	20	78-123	
Bromodichloromethane	50.0	52.2	104	2	20	79-125	
Bromoform	50.0	57.2	114	6	20	66-130	
Bromomethane	50.0	58.9	118	2	20	53-141	
Carbon disulfide	50.0	50.1	100	0	20	64-133	
Carbon tetrachloride	50.0	52.4	105	2	20	72-136	
Chlorobenzene	50.0	50.1	100	4	20	82-118	
Chloroethane	50.0	52.4	105	1	20	60-138	
Chloroform	50.0	49.6	99	3	20	79-124	
Chloromethane	50.0	51.8	104	0	20	50-139	
cis-1,2-Dichloroethene	50.0	49.0	98	3	20	78-123	
cis-1,3-Dichloropropene	50.0	51.7	103	2	20	75-124	
Dibromochloromethane	50.0	53.6	107	5	20	74-126	
Dibromomethane	50.0	53.8	108	7	20	79-123	
Dichlorodifluoromethane	50.0	56.1	112	3	20	32-152	
Ethylbenzene	50.0	47.8	96	5	20	79-121	
Isopropylbenzene	50.0	49.4	99	5	20	72-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: XLCS5234.D
 Lab ID: LCSD 160-288297/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
m,p-Xylenes	50.0	48.8	98	5	20	80-121	
Methyl tert-butyl ether	50.0	48.5	97	4	20	71-124	
Methylene Chloride	50.0	49.3	99	1	20	74-124	
Naphthalene	50.0	54.4	109	2	20	61-128	
n-Butylbenzene	50.0	50.9	102	2	20	75-128	
N-Propylbenzene	50.0	49.9	100	3	20	76-126	
o-Xylene	50.0	49.6	99	5	20	78-122	
p-Isopropyltoluene	50.0	50.6	101	4	20	77-127	
sec-Butylbenzene	50.0	50.9	102	3	20	77-126	
Styrene	50.0	49.2	98	4	20	78-123	
tert-Butylbenzene	50.0	49.5	99	4	20	78-124	
Tetrachloroethene	50.0	50.6	101	5	20	74-129	
Toluene	50.0	47.6	95	5	20	80-121	
trans-1,2-Dichloroethene	50.0	49.2	98	1	20	75-124	
trans-1,3-Dichloropropene	50.0	51.7	103	5	20	73-127	
Trichloroethene	50.0	50.7	101	1	20	79-123	
Trichlorofluoromethane	50.0	56.8	114	2	20	65-141	
Vinyl chloride	50.0	54.0	108	1	20	58-137	
Xylenes (total)	100	98.4	98	5	20	79-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica St. Louis

Job No.: 280-92896-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: XSMP5176.D

Lab ID: 280-92896-6 MS

Client ID: 6MW2003MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	2.0 U	50.3	101	78-124	
1,1,1-Trichloroethane	50.0	1.0 U	51.2	102	74-131	
1,1,2,2-Tetrachloroethane	50.0	2.0 U	43.9	88	71-121	
1,1,2-Trichloroethane	50.0	1.0 U	47.3	95	80-119	
1,1-Dichloroethane	50.0	1.0 U	48.6	97	77-125	
1,1-Dichloroethene	50.0	1.0 U	49.6	99	71-131	
1,1-Dichloropropene	50.0	1.0 U	49.3	99	79-125	
1,2,3-Trichlorobenzene	50.0	2.0 U	49.1	98	69-129	
1,2,3-Trichloropropane	50.0	1.0 U	45.6	91	73-122	
1,2,4-Trimethylbenzene	50.0	2.0 U	47.1	94	76-124	
1,2-Dibromo-3-Chloropropane	50.0	2.0 U	43.9	88	62-128	
1,2-Dibromoethane	50.0	2.0 U	47.6	95	80-120	
1,2-Dichloroethane	50.0	1.0 U	50.0	100	73-128	
1,2-Dichloropropane	50.0	1.0 U	48.8	98	78-122	
1,3,5-Trimethylbenzene	50.0	2.0 U	47.3	95	75-124	
1,3-Dichloropropane	50.0	1.0 U	46.9	94	80-119	
2,2-Dichloropropane	50.0	2.0 U	47.6	95	60-139	
2-Butanone (MEK)	50.0	5.0 U	48.1	96	56-143	
2-Chlorotoluene	50.0	2.0 U	47.1	94	79-122	
2-Hexanone	50.0	2.0 U	43.5	87	57-139	
4-Chlorotoluene	50.0	2.0 U	46.6	93	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	2.0 U	44.1	88	67-130	
Acetone	50.0	10 U	55.4	111	39-160	
Benzene	50.0	1.0 U	46.7	93	79-120	
Bromobenzene	50.0	2.0 U	48.2	96	80-120	
Bromochloromethane	50.0	2.0 U	52.2	104	78-123	
Bromodichloromethane	50.0	2.0 U	52.5	105	79-125	
Bromoform	50.0	1.0 U	50.5	101	66-130	
Bromomethane	50.0	2.0 U	53.8	108	53-141	
Carbon disulfide	50.0	1.0 U	50.5	101	64-133	
Carbon tetrachloride	50.0	1.0 U	51.7	103	72-136	
Chlorobenzene	50.0	1.0 U	49.7	99	82-118	
Chloroethane	50.0	1.0 U	47.3	95	60-138	
Chloroform	50.0	1.0 U	49.8	100	79-124	
Chloromethane	50.0	2.0 U	41.8	84	50-139	
cis-1,2-Dichloroethene	50.0	3.1 J	52.6	99	78-123	
cis-1,3-Dichloropropene	50.0	1.0 U	50.8	102	75-124	
Dibromochloromethane	50.0	1.0 U	50.7	101	74-126	
Dibromomethane	50.0	2.0 U	50.6	101	79-123	
Dichlorodifluoromethane	50.0	2.0 U	54.4	109	32-152	
Ethylbenzene	50.0	1.0 U	47.2	94	79-121	
Isopropylbenzene	50.0	2.0 U	47.4	95	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: XSMP5176.D
 Lab ID: 280-92896-6 MS Client ID: 6MW2003MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	1.0 U	47.3	95	80-121	
Methyl tert-butyl ether	50.0	2.0 U	45.5	91	71-124	
Methylene Chloride	50.0	5.0 U	49.7	99	74-124	
Naphthalene	50.0	2.0 U	46.5	93	61-128	
n-Butylbenzene	50.0	2.0 U	50.3	101	75-128	
N-Propylbenzene	50.0	2.0 U	47.9	96	76-126	
o-Xylene	50.0	1.0 U	48.2	96	78-122	
p-Isopropyltoluene	50.0	2.0 U	48.8	98	77-127	
sec-Butylbenzene	50.0	2.0 U	48.2	96	77-126	
Styrene	50.0	1.0 U	47.9	96	78-123	
tert-Butylbenzene	50.0	2.0 U	48.0	96	78-124	
Tetrachloroethene	50.0	1.0 U	49.5	99	74-129	
Toluene	50.0	1.0 U	46.3	93	80-121	
trans-1,2-Dichloroethene	50.0	1.0 U	49.8	100	75-124	
trans-1,3-Dichloropropene	50.0	1.0 U	48.6	97	73-127	
Trichloroethene	50.0	1.0 U	50.9	102	79-123	
Trichlorofluoromethane	50.0	2.0 U	55.3	111	65-141	
Vinyl chloride	50.0	2.3 J	50.7	97	58-137	
Xylenes (total)	100	5.0 U	95.5	96	79-121	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis

Job No.: 280-92896-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: XSMP5177.D

Lab ID: 280-92896-6 MSD

Client ID: 6MW2003MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	50.4	101	0	20	78-124	
1,1,1-Trichloroethane	50.0	50.2	100	2	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	44.7	89	2	20	71-121	
1,1,2-Trichloroethane	50.0	46.2	92	2	20	80-119	
1,1-Dichloroethane	50.0	47.7	95	2	20	77-125	
1,1-Dichloroethene	50.0	48.2	96	3	20	71-131	
1,1-Dichloropropene	50.0	48.2	96	2	20	79-125	
1,2,3-Trichlorobenzene	50.0	51.7	103	5	20	69-129	
1,2,3-Trichloropropane	50.0	47.7	95	5	20	73-122	
1,2,4-Trimethylbenzene	50.0	47.6	95	1	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	45.5	91	4	20	62-128	
1,2-Dibromoethane	50.0	48.1	96	1	20	80-120	
1,2-Dichloroethane	50.0	50.1	100	0	20	73-128	
1,2-Dichloropropane	50.0	48.7	97	0	20	78-122	
1,3,5-Trimethylbenzene	50.0	47.5	95	0	20	75-124	
1,3-Dichloropropane	50.0	47.1	94	0	20	80-119	
2,2-Dichloropropane	50.0	45.6	91	4	20	60-139	
2-Butanone (MEK)	50.0	48.4	97	1	20	56-143	
2-Chlorotoluene	50.0	47.1	94	0	20	79-122	
2-Hexanone	50.0	45.1	90	4	20	57-139	
4-Chlorotoluene	50.0	46.8	94	0	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	45.9	92	4	20	67-130	
Acetone	50.0	57.7	115	4	20	39-160	
Benzene	50.0	46.2	92	1	20	79-120	
Bromobenzene	50.0	48.3	97	0	20	80-120	
Bromochloromethane	50.0	51.3	103	2	20	78-123	
Bromodichloromethane	50.0	51.8	104	1	20	79-125	
Bromoform	50.0	51.3	103	2	20	66-130	
Bromomethane	50.0	50.0	100	7	20	53-141	
Carbon disulfide	50.0	48.2	96	4	20	64-133	
Carbon tetrachloride	50.0	50.4	101	3	20	72-136	
Chlorobenzene	50.0	49.1	98	1	20	82-118	
Chloroethane	50.0	45.6	91	4	20	60-138	
Chloroform	50.0	50.3	101	1	20	79-124	
Chloromethane	50.0	40.0	80	4	20	50-139	
cis-1,2-Dichloroethene	50.0	53.0	100	1	20	78-123	
cis-1,3-Dichloropropene	50.0	50.0	100	2	20	75-124	
Dibromochloromethane	50.0	51.3	103	1	20	74-126	
Dibromomethane	50.0	50.9	102	1	20	79-123	
Dichlorodifluoromethane	50.0	51.0	102	6	20	32-152	
Ethylbenzene	50.0	46.6	93	1	20	79-121	
Isopropylbenzene	50.0	47.2	94	0	20	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: XSMP5177.D
 Lab ID: 280-92896-6 MSD Client ID: 6MW2003MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
m,p-Xylenes	50.0	47.0	94	1	20	80-121	
Methyl tert-butyl ether	50.0	45.9	92	1	20	71-124	
Methylene Chloride	50.0	49.0	98	1	20	74-124	
Naphthalene	50.0	48.0	96	3	20	61-128	
n-Butylbenzene	50.0	49.3	99	2	20	75-128	
N-Propylbenzene	50.0	47.9	96	0	20	76-126	
o-Xylene	50.0	47.9	96	1	20	78-122	
p-Isopropyltoluene	50.0	48.7	97	0	20	77-127	
sec-Butylbenzene	50.0	47.4	95	2	20	77-126	
Styrene	50.0	48.0	96	0	20	78-123	
tert-Butylbenzene	50.0	47.4	95	1	20	78-124	
Tetrachloroethene	50.0	49.1	98	1	20	74-129	
Toluene	50.0	45.9	92	1	20	80-121	
trans-1,2-Dichloroethene	50.0	48.6	97	2	20	75-124	
trans-1,3-Dichloropropene	50.0	48.9	98	1	20	73-127	
Trichloroethene	50.0	50.1	100	2	20	79-123	
Trichlorofluoromethane	50.0	54.3	109	2	20	65-141	
Vinyl chloride	50.0	47.7	91	6	20	58-137	
Xylenes (total)	100	94.9	95	1	20	79-121	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Lab File ID: XBLK5173.D Lab Sample ID: MB 160-287920/7
 Matrix: Water Heated Purge: (Y/N) Y
 Instrument ID: VMSX Date Analyzed: 01/16/2017 19:33
 GC Column: RTXVMS30 ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 160-287920/4	XLCS5170.D	01/16/2017 18:19
	LCSD 160-287920/5	XLCS5171.D	01/16/2017 18:44
TB04	280-92896-8	XSMP5174.D	01/16/2017 19:57
6MW2003	280-92896-6	XSMP5175.D	01/16/2017 20:24
6MW2003MS MS	280-92896-6 MS	XSMP5176.D	01/16/2017 20:49
6MW2003MSD MSD	280-92896-6 MSD	XSMP5177.D	01/16/2017 21:14
6MW2403	280-92896-1	XSMP5179.D	01/16/2017 22:04
6MW2203	280-92896-2	XSMP5180.D	01/16/2017 22:29
6MW2303	280-92896-3	XSMP5181.D	01/16/2017 22:54
6MW2503	280-92896-5	XSMP5183.D	01/16/2017 23:44
6MW2003D	280-92896-7	XSMP5184.D	01/17/2017 00:08

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
SDG No.: _____
Lab File ID: XBLK5236.D Lab Sample ID: MB 160-288297/7
Matrix: Water Heated Purge: (Y/N) Y
Instrument ID: VMSX Date Analyzed: 01/19/2017 16:57
GC Column: RTXVMS30 ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 160-288297/4	XLCS5233.D	01/19/2017 15:26
	LCSD 160-288297/5	XLCS5234.D	01/19/2017 15:51
6MW2603 RA	280-92896-4 RA	XSMP5240.D	01/19/2017 18:57

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Lab File ID: XBFB4403.D BFB Injection Date: 11/18/2016
 Instrument ID: VMSX BFB Injection Time: 11:37
 Analysis Batch No.: 279985

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.9
75	30.0 - 60.0 % of mass 95	48.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.2 (0.4) 1
174	50.0 - 120.00 % of mass 95	68.6
175	5.0 - 9.0 % of mass 174	5.3 (7.8) 1
176	95.0 - 101.0 % of mass 174	67.0 (97.6) 1
177	5.0 - 9.0 % of mass 176	4.6 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 160-279985/5	XICL4405.D	11/18/2016	12:29
	IC 160-279985/6	XICL4406.D	11/18/2016	12:53
	IC 160-279985/7	XICL4407.D	11/18/2016	13:18
	IC 160-279985/8	XICL4408.D	11/18/2016	13:43
	IC 160-279985/9	XICL4409.D	11/18/2016	14:07
	ICIS 160-279985/10	XICL4410.D	11/18/2016	14:31
	IC 160-279985/11	XICL4411.D	11/18/2016	14:55
	IC 160-279985/12	XICL4412.D	11/18/2016	15:20
	ICV 160-279985/14	XICV4414.D	11/18/2016	16:09

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
SDG No.: _____
Lab File ID: XBFB5168.D BFB Injection Date: 01/16/2017
Instrument ID: VMSX BFB Injection Time: 17:20
Analysis Batch No.: 287920

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.4
75	30.0 - 60.0 % of mass 95	48.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.0
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	76.5
175	5.0 - 9.0 % of mass 174	6.0 (7.8) 1
176	95.0 - 101.0 % of mass 174	73.1 (95.5) 1
177	5.0 - 9.0 % of mass 176	4.7 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 160-287920/3	XCCV5169.D	01/16/2017	17:43
	LCS 160-287920/4	XLCS5170.D	01/16/2017	18:19
	LCSD 160-287920/5	XLCS5171.D	01/16/2017	18:44
	MB 160-287920/7	XBLK5173.D	01/16/2017	19:33
TB04	280-92896-8	XSMP5174.D	01/16/2017	19:57
6MW2003	280-92896-6	XSMP5175.D	01/16/2017	20:24
6MW2003MS MS	280-92896-6 MS	XSMP5176.D	01/16/2017	20:49
6MW2003MSD MSD	280-92896-6 MSD	XSMP5177.D	01/16/2017	21:14
6MW2403	280-92896-1	XSMP5179.D	01/16/2017	22:04
6MW2203	280-92896-2	XSMP5180.D	01/16/2017	22:29
6MW2303	280-92896-3	XSMP5181.D	01/16/2017	22:54
6MW2503	280-92896-5	XSMP5183.D	01/16/2017	23:44
6MW2003D	280-92896-7	XSMP5184.D	01/17/2017	00:08
	CCVC 160-287920/19	XCCV5185.D	01/17/2017	00:34

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Lab File ID: XBFB5231.D BFB Injection Date: 01/19/2017
 Instrument ID: VMSX BFB Injection Time: 14:22
 Analysis Batch No.: 288297

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.1
75	30.0 - 60.0 % of mass 95	48.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.0
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	71.6
175	5.0 - 9.0 % of mass 174	5.3 (7.5) 1
176	95.0 - 101.0 % of mass 174	70.9 (99.1) 1
177	5.0 - 9.0 % of mass 176	4.4 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 160-288297/3	XCCV5232.D	01/19/2017	14:45
	LCS 160-288297/4	XLCS5233.D	01/19/2017	15:26
	LCSD 160-288297/5	XLCS5234.D	01/19/2017	15:51
	MB 160-288297/7	XBLK5236.D	01/19/2017	16:57
6MW2603 RA	280-92896-4 RA	XSMP5240.D	01/19/2017	18:57
	CCVC 160-288297/20	XCCV5249.D	01/19/2017	22:41

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Sample No.: ICIS 160-279985/10 Date Analyzed: 11/18/2016 14:31
 Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25 (mm)
 Lab File ID (Standard): XICL4410.D Heated Purge: (Y/N) Y
 Calibration ID: 11859

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	1543811	8.33	966582	12.04	388971	14.24
UPPER LIMIT	3087622	8.83	1933164	12.54	777942	14.74
LOWER LIMIT	771906	7.83	483291	11.54	194486	13.74
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 160-279985/14		1554090	8.33	954381	12.04	379845 14.24
CCV 160-287920/3		1333929	8.32	865641	12.03	361388 14.24
LCS 160-287920/4		1323307	8.32	860743	12.03	364913 14.24
LCSD 160-287920/5		1284177	8.32	833477	12.03	352266 14.24
MB 160-287920/7		1439275	8.32	916202	12.04	401800 14.24
280-92896-8	TB04	1238440	8.32	831854	12.04	384533 14.24
280-92896-6	6MW2003	1337161	8.32	858559	12.04	382351 14.24
280-92896-6 MS	6MW2003MS MS	1225092	8.32	806579	12.04	346543 14.24
280-92896-6 MSD	6MW2003MSD MSD	1275649	8.32	838823	12.04	357603 14.24
280-92896-1	6MW2403	1323984	8.32	857306	12.04	383696 14.24
280-92896-2	6MW2203	1210153	8.33	778234	12.04	344826 14.24
280-92896-3	6MW2303	1359895	8.32	874341	12.04	389602 14.24
280-92896-5	6MW2503	1349913	8.32	875634	12.04	390416 14.24
280-92896-7	6MW2003D	1308355	8.33	848142	12.04	370110 14.24
CCVC 160-287920/19		1286912	8.32	832888	12.04	343592 14.24
CCV 160-288297/3		1184891	8.32	759616	12.03	313701 14.24
LCS 160-288297/4		1178955	8.32	770961	12.03	328787 14.24
LCSD 160-288297/5		1252712	8.32	802565	12.03	342663 14.24
MB 160-288297/7		1256158	8.32	789122	12.03	358112 14.24
280-92896-4 RA	6MW2603 RA	1201324	8.32	758910	12.03	339240 14.24
CCVC 160-288297/20		1273651	8.32	824643	12.04	349762 14.24

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: 6MW2403 Lab Sample ID: 280-92896-1

Matrix: Water Lab File ID: XSMP5179.D

Analysis Method: 8260C DOD Date Collected: 01/09/2017 10:50

Sample wt/vol: 5(mL) Date Analyzed: 01/16/2017 22:04

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	J	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	3.6	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Client Sample ID: 6MW2403 Lab Sample ID: 280-92896-1
 Matrix: Water Lab File ID: XSMP5179.D
 Analysis Method: 8260C DOD Date Collected: 01/09/2017 10:50
 Sample wt/vol: 5 (mL) Date Analyzed: 01/16/2017 22:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	3.2	J	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.6	J	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		81-118
460-00-4	4-Bromofluorobenzene (Surr)	87		85-114
1868-53-7	Dibromofluoromethane (Surr)	110		80-119
2037-26-5	Toluene-d8 (Surr)	97		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5179.D
 Lims ID: 280-92896-B-1
 Client ID: 6MW2403
 Sample Type: Client
 Inject. Date: 16-Jan-2017 22:04:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-013
 Misc. Info.: 280-92896-B-1
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:19:59 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:17:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.913				ND	
3 Chloromethane	50		2.126				ND	
4 Vinyl chloride	62	2.233	2.233	0.000	95	15148	1.59	
5 Bromomethane	94		2.623				ND	
6 Chloroethane	64		2.789				ND	
7 Trichlorofluoromethane	101		2.966				ND	
9 1,1-Dichloroethene	96		3.664				ND	
10 Carbon disulfide	76		3.664				ND	
17 Methylene Chloride	84		4.599				ND	
18 Acetone	43		4.717				ND	
19 trans-1,2-Dichloroethene	96		4.859				ND	
22 Methyl tert-butyl ether	73		5.084				ND	
28 1,1-Dichloroethane	63		5.830				ND	
32 cis-1,2-Dichloroethene	96	6.611	6.611	0.000	81	28065	3.55	
33 2,2-Dichloropropane	77		6.765				ND	
35 Chlorobromomethane	128		6.883				ND	
36 Chloroform	83	7.013	7.013	0.000	85	12189	1.01	
37 Carbon tetrachloride	117		7.167				ND	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.262	0.000	93	283761	54.9	
40 1,1,1-Trichloroethane	97		7.262				ND	
42 1,1-Dichloropropene	75		7.427				ND	
43 2-Butanone (MEK)	43		7.451				ND	
44 Benzene	78		7.759				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	32	306621	56.0	
49 1,2-Dichloroethane	62		8.043				ND	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1323984	50.0	
53 Trichloroethene	95	8.528	8.528	0.000	95	23689	3.20	
55 Dibromomethane	93		9.060				ND	
56 1,2-Dichloropropane	63		9.190				ND	
57 Dichlorobromomethane	83		9.285				ND	
61 cis-1,3-Dichloropropene	75		10.078				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 62 Toluene-d8 (Surr)	98	10.314	10.314	0.000	94	1264367	48.3	
63 Toluene	92		10.374				ND	
65 Tetrachloroethene	164		10.823				ND	
66 4-Methyl-2-pentanone (MIBK)	43		10.859				ND	
67 trans-1,3-Dichloropropene	75		10.882				ND	
68 1,1,2-Trichloroethane	83		11.060				ND	
70 Chlorodibromomethane	129		11.249				ND	
71 1,3-Dichloropropane	76		11.356				ND	
72 Ethylene Dibromide	107		11.498				ND	
74 2-Hexanone	43		11.770				ND	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	89	857306	50.0	
77 Chlorobenzene	112		12.054				ND	
78 Ethylbenzene	91		12.089				ND	
79 1,1,1,2-Tetrachloroethane	131		12.125				ND	
80 m-Xylene & p-Xylene	106		12.243				ND	
82 o-Xylene	106		12.657				ND	
83 Styrene	104		12.717				ND	
84 Bromoform	173		12.728				ND	
85 Isopropylbenzene	105		12.965				ND	
\$ 86 4-Bromofluorobenzene (Surr)	95	13.225	13.225	0.000	85	410032	43.7	
87 Bromobenzene	156		13.320				ND	
88 N-Propylbenzene	91		13.355				ND	
89 1,1,2,2-Tetrachloroethane	83		13.426				ND	
90 2-Chlorotoluene	91		13.486				ND	
91 1,3,5-Trimethylbenzene	105		13.533				ND	
92 1,2,3-Trichloropropane	110		13.545				ND	
95 4-Chlorotoluene	91		13.639				ND	
96 tert-Butylbenzene	119		13.817				ND	
97 1,2,4-Trimethylbenzene	105		13.888				ND	
98 sec-Butylbenzene	105		13.983				ND	
99 4-Isopropyltoluene	119		14.113				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	383696	50.0	
103 n-Butylbenzene	134		14.480				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.320				ND	
110 Naphthalene	128		16.172				ND	
111 1,2,3-Trichlorobenzene	180		16.326				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

I.S. Working_00142
8260 Surr 25_00070

Amount Added: 10.00
Amount Added: 10.00

Units: uL
Units: uL

Run Reagent
Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5179.D

Injection Date: 16-Jan-2017 22:04:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: 280-92896-B-1

Lab Sample ID: 160-92896-1

Worklist Smp#: 13

Client ID: 6MW2403

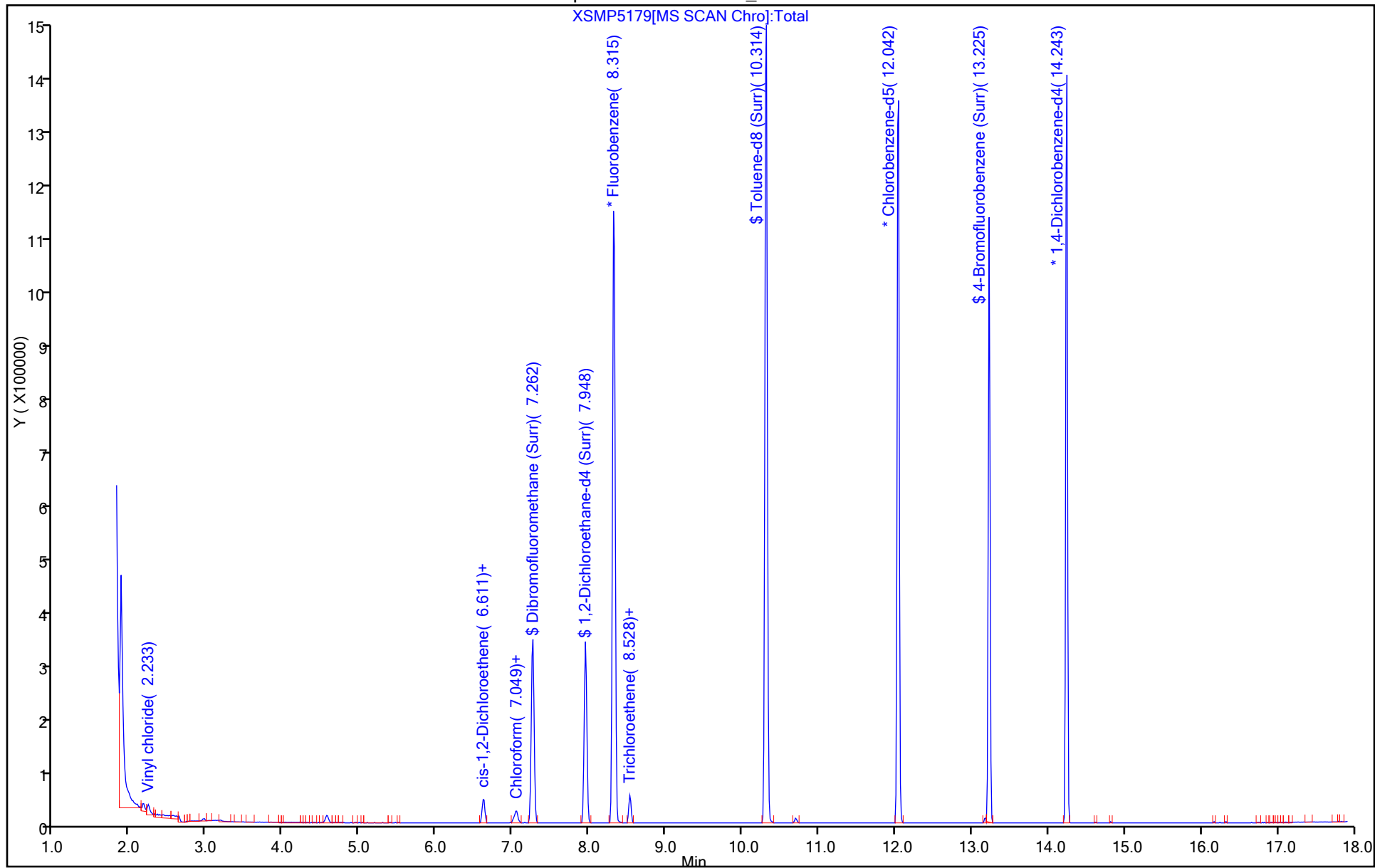
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5179.D
Lims ID: 280-92896-B-1
Client ID: 6MW2403
Sample Type: Client
Inject. Date: 16-Jan-2017 22:04:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009564-013
Misc. Info.: 280-92896-B-1
Operator ID: JDH Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 24-Jan-2017 15:19:59 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:17:07

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	54.9	109.72
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	56.0	112.07
\$ 62 Toluene-d8 (Surr)	50.0	48.3	96.52
\$ 86 4-Bromofluorobenzene (Surr)	50.0	43.7	87.30

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5179.D

Injection Date: 16-Jan-2017 22:04:30

Instrument ID: VMSX

Lims ID: 280-92896-B-1

Lab Sample ID: 160-92896-1

Client ID: 6MW2403

Operator ID: JDH

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

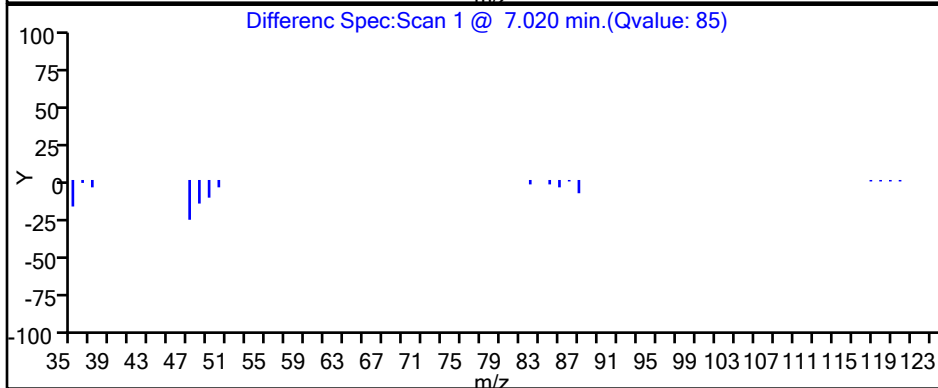
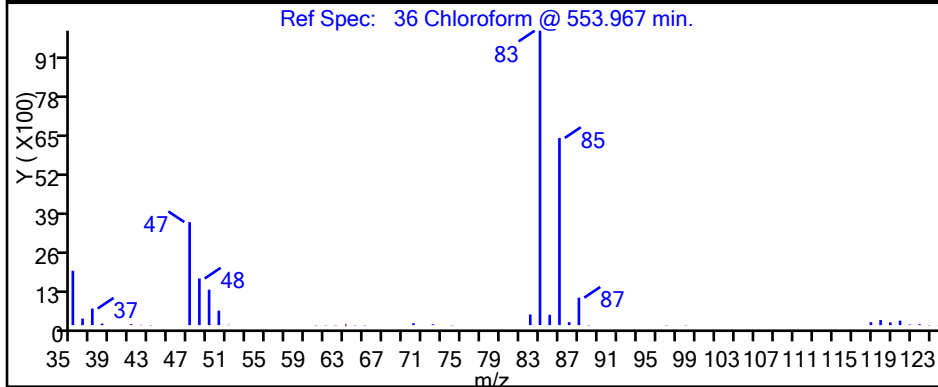
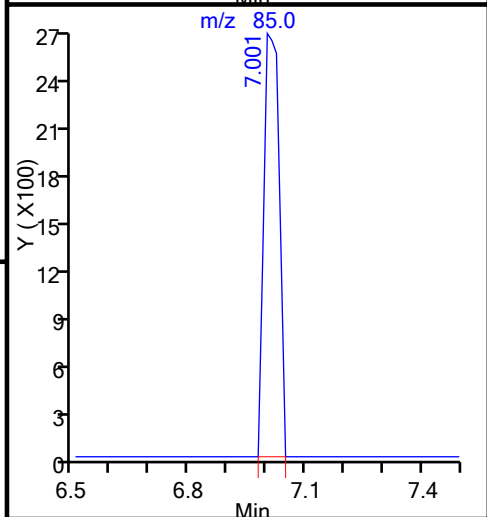
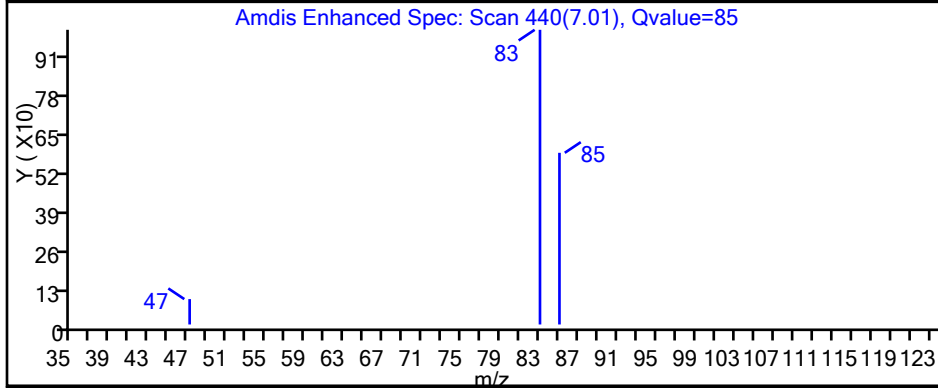
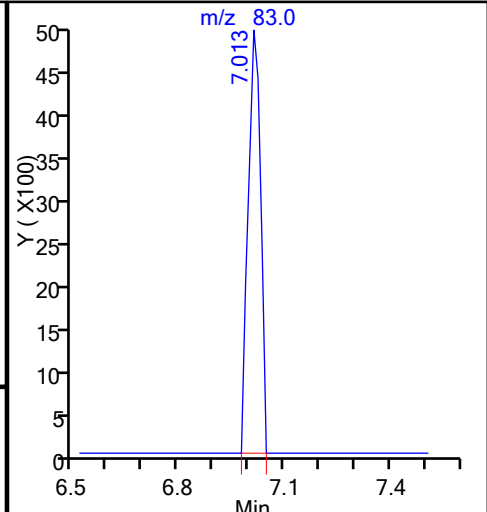
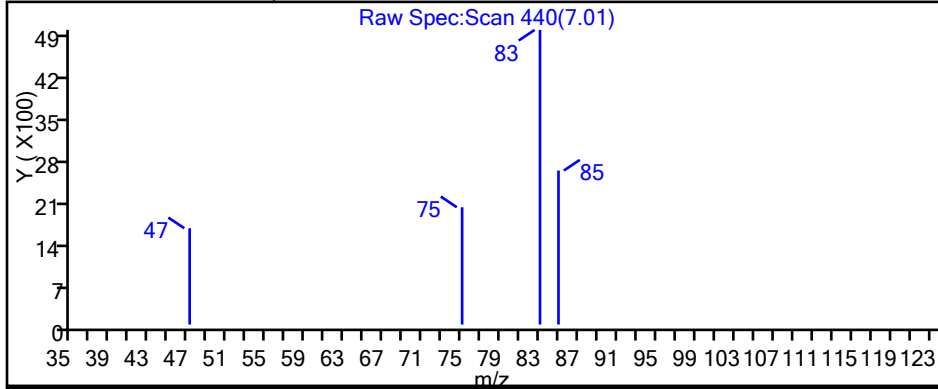
Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

36 Chloroform, CAS: 67-66-3

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5179.D

Injection Date: 16-Jan-2017 22:04:30

Instrument ID: VMSX

Lims ID: 280-92896-B-1

Lab Sample ID: 160-92896-1

Client ID: 6MW2403

Operator ID: JDH

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

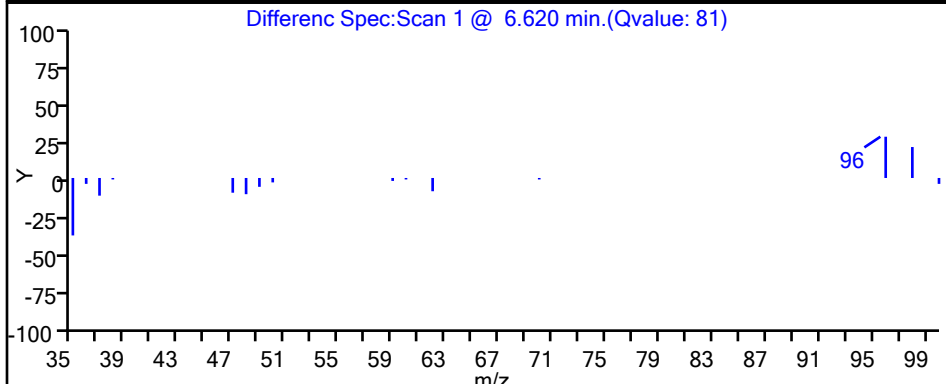
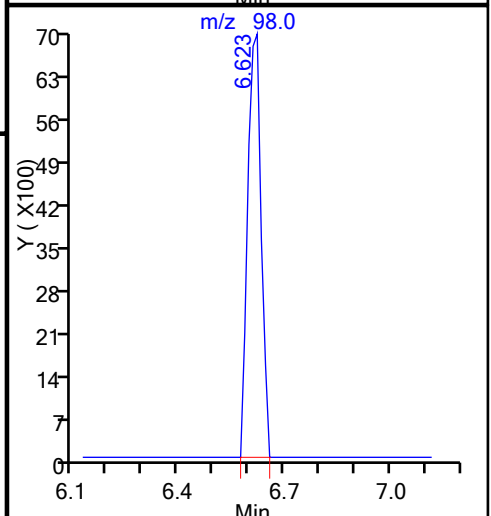
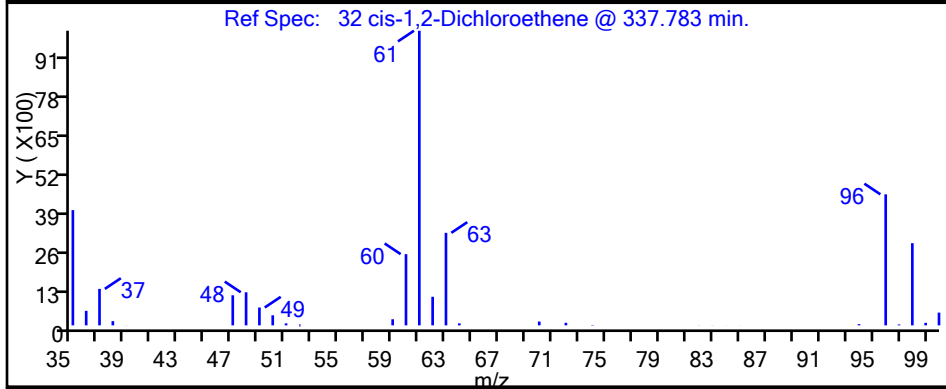
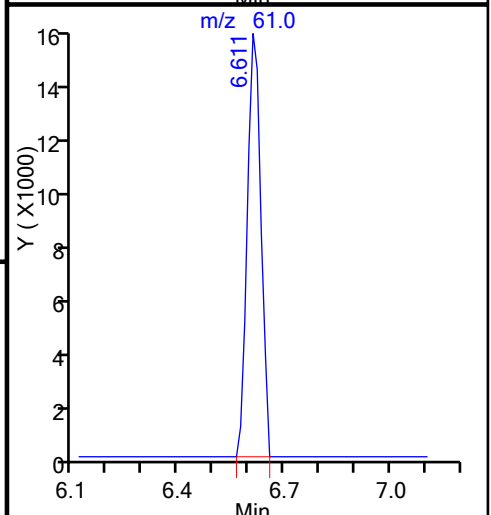
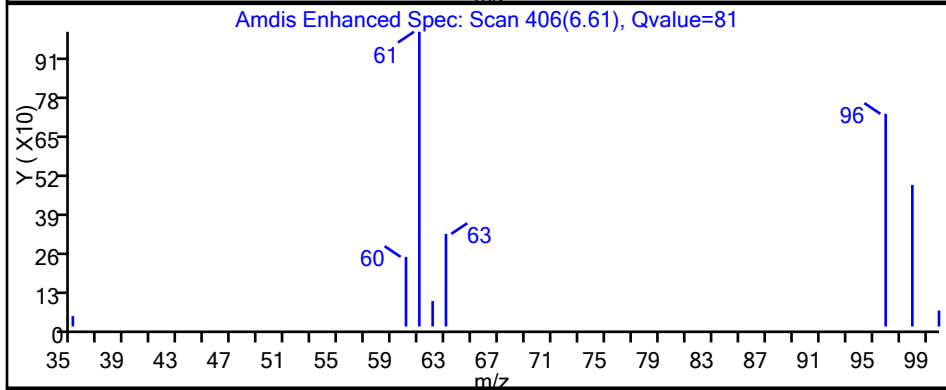
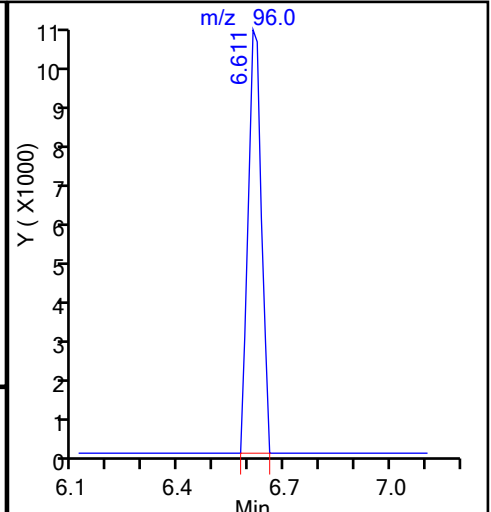
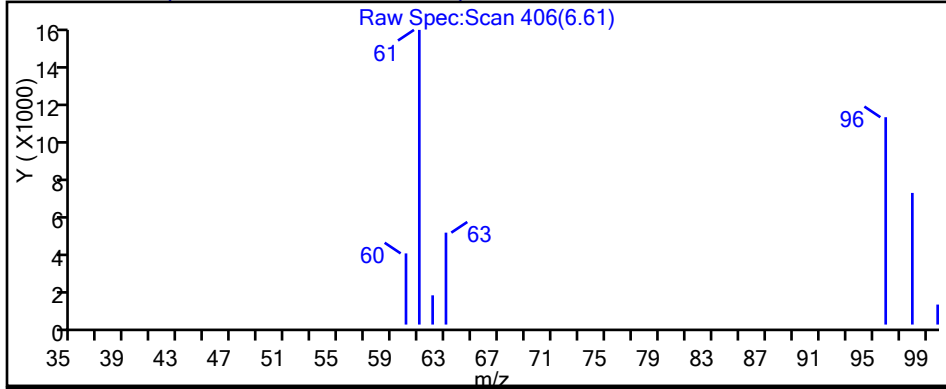
Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5179.D

Injection Date: 16-Jan-2017 22:04:30

Instrument ID: VMSX

Lims ID: 280-92896-B-1

Lab Sample ID: 160-92896-1

Client ID: 6MW2403

Operator ID: JDH

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

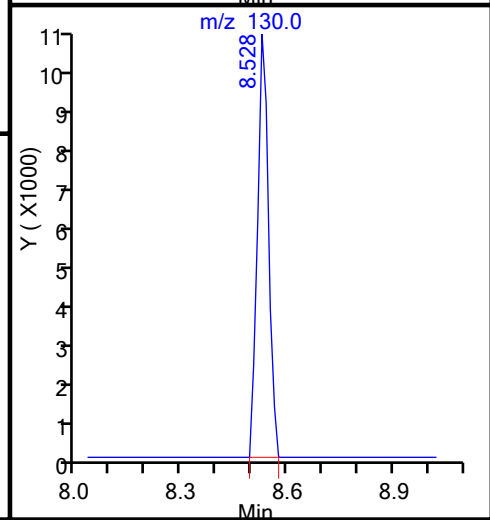
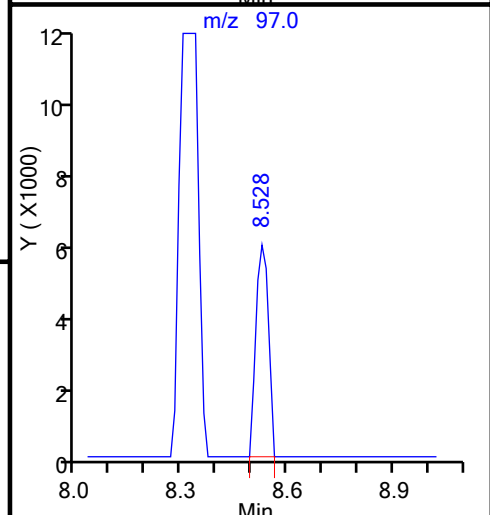
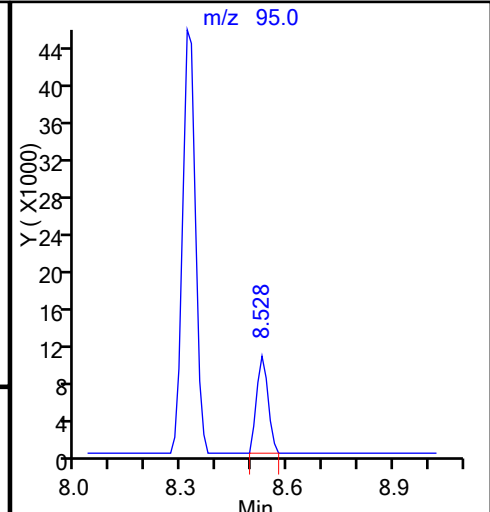
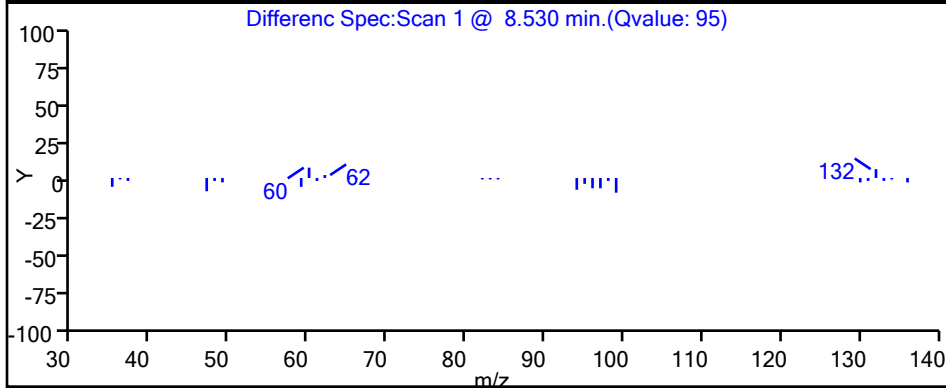
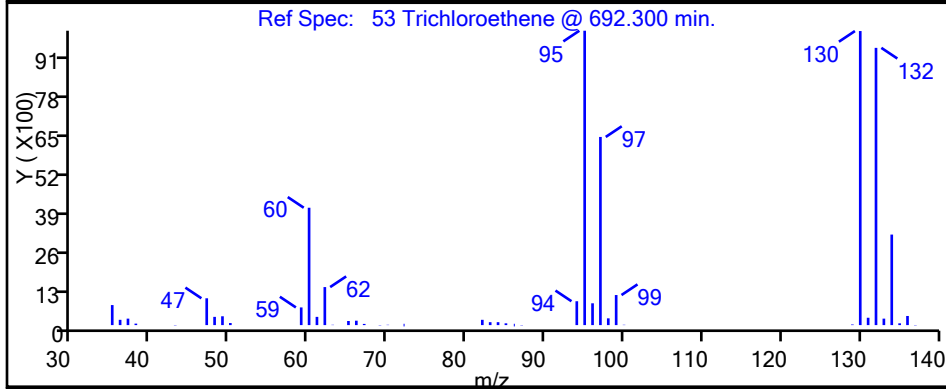
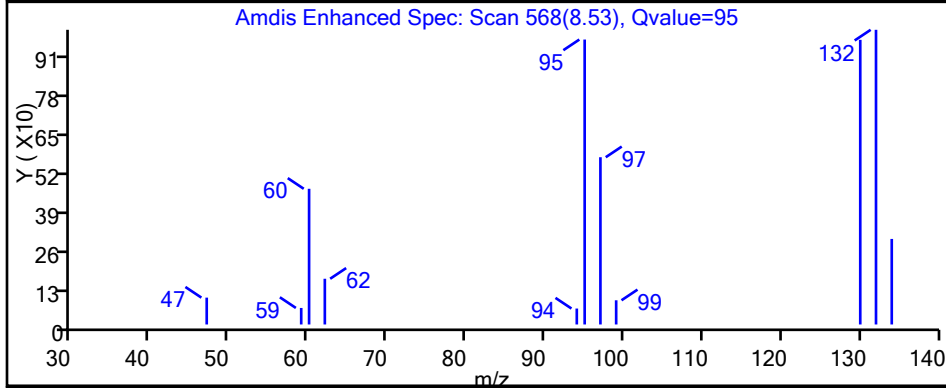
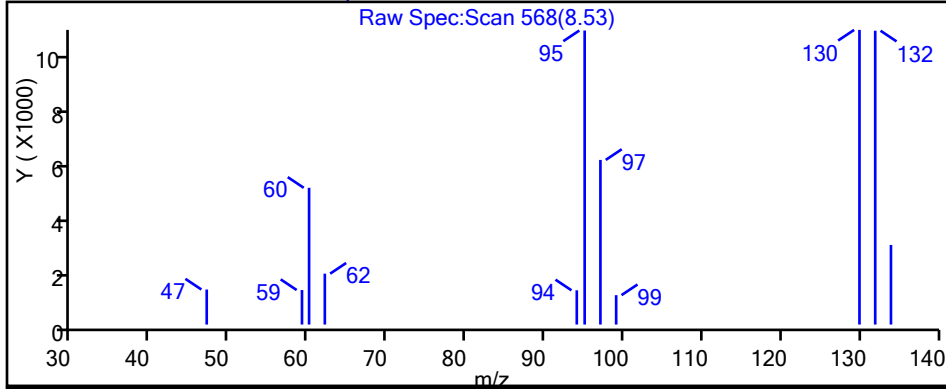
Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5179.D

Injection Date: 16-Jan-2017 22:04:30

Instrument ID: VMSX

Lims ID: 280-92896-B-1

Lab Sample ID: 160-92896-1

Client ID: 6MW2403

Operator ID: JDH

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

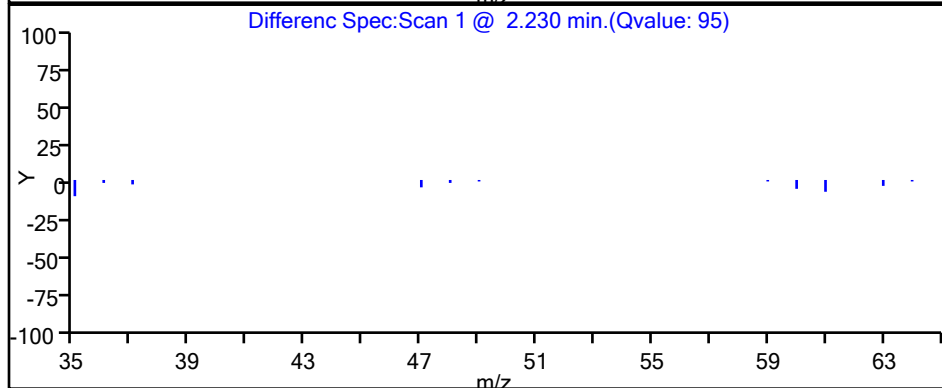
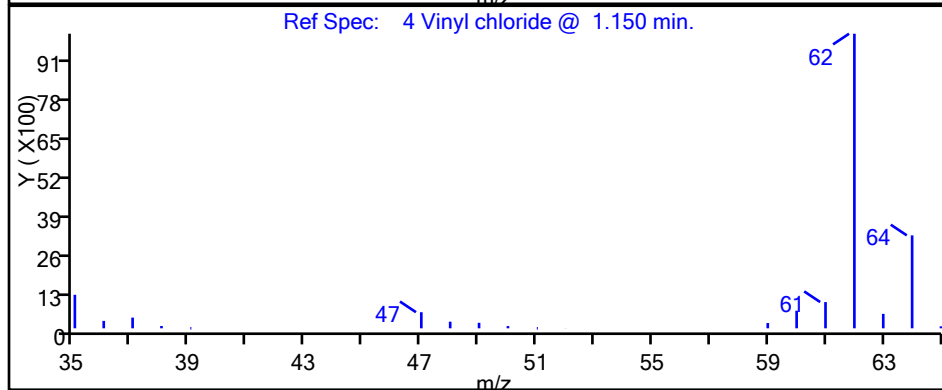
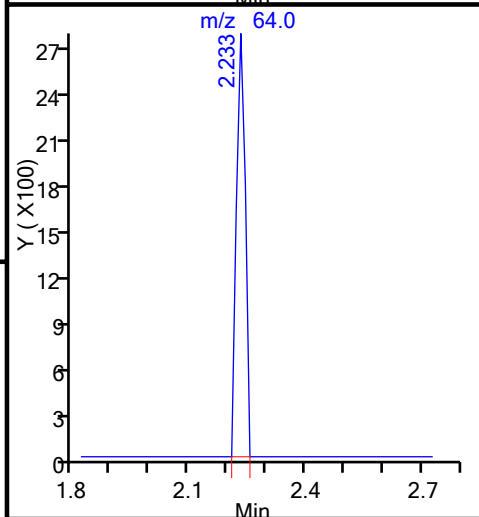
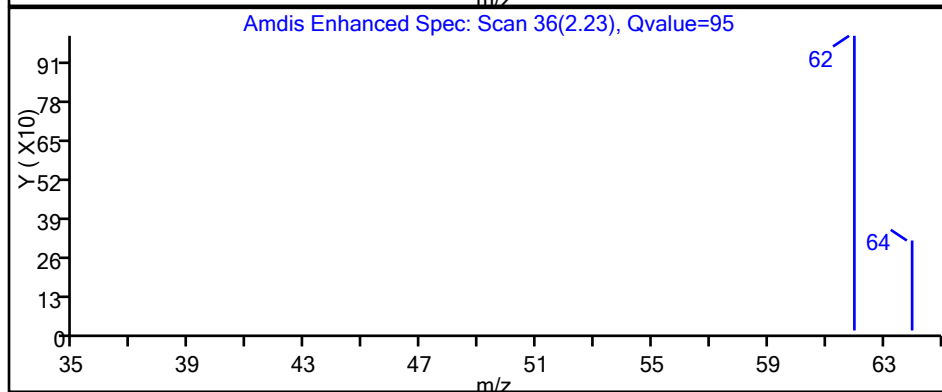
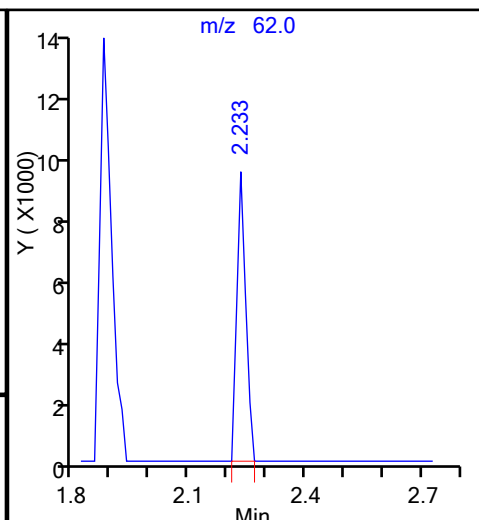
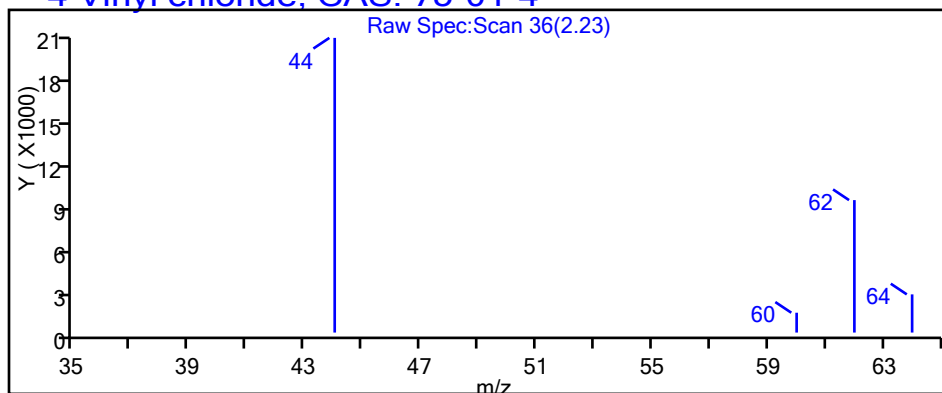
Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: 6MW2203 Lab Sample ID: 280-92896-2

Matrix: Water Lab File ID: XSMP5180.D

Analysis Method: 8260C DOD Date Collected: 01/09/2017 11:50

Sample wt/vol: 5(mL) Date Analyzed: 01/16/2017 22:29

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	24		20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	63		20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.6	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Client Sample ID: 6MW2203 Lab Sample ID: 280-92896-2
 Matrix: Water Lab File ID: XSMP5180.D
 Analysis Method: 8260C DOD Date Collected: 01/09/2017 11:50
 Sample wt/vol: 5 (mL) Date Analyzed: 01/16/2017 22:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	5.2		5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	2.2	J	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	2.5	J	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		81-118
460-00-4	4-Bromofluorobenzene (Surr)	88		85-114
1868-53-7	Dibromofluoromethane (Surr)	108		80-119
2037-26-5	Toluene-d8 (Surr)	98		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5180.D
 Lims ID: 280-92896-B-2
 Client ID: 6MW2203
 Sample Type: Client
 Inject. Date: 16-Jan-2017 22:29:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-014
 Misc. Info.: 280-92896-B-2
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:19:59 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:17:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.913				ND	
3 Chloromethane	50		2.126				ND	
4 Vinyl chloride	62	2.232	2.233	-0.001	96	21777	2.50	
5 Bromomethane	94		2.623				ND	
6 Chloroethane	64		2.789				ND	
7 Trichlorofluoromethane	101		2.966				ND	
9 1,1-Dichloroethene	96		3.664				ND	
10 Carbon disulfide	76		3.664				ND	
17 Methylene Chloride	84		4.599				ND	
18 Acetone	43	4.717	4.717	0.000	100	53610	62.6	
19 trans-1,2-Dichloroethene	96		4.859				ND	
22 Methyl tert-butyl ether	73		5.084				ND	
28 1,1-Dichloroethane	63		5.830				ND	
32 cis-1,2-Dichloroethene	96	6.622	6.611	0.011	79	11333	1.57	
33 2,2-Dichloropropane	77		6.765				ND	
35 Chlorobromomethane	128		6.883				ND	
36 Chloroform	83		7.013				ND	
37 Carbon tetrachloride	117		7.167				ND	
\$ 41 Dibromofluoromethane (Surr	113	7.261	7.262	-0.001	93	254754	53.9	
40 1,1,1-Trichloroethane	97		7.262				ND	
42 1,1-Dichloropropene	75		7.427				ND	
43 2-Butanone (MEK)	43		7.451				ND	
44 Benzene	78		7.759				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	32	277886	55.6	
49 1,2-Dichloroethane	62		8.043				ND	
* 51 Fluorobenzene	96	8.326	8.315	0.011	98	1210153	50.0	
53 Trichloroethene	95	8.528	8.528	0.000	95	15082	2.23	
55 Dibromomethane	93		9.060				ND	
56 1,2-Dichloropropane	63		9.190				ND	
57 Dichlorobromomethane	83		9.285				ND	
61 cis-1,3-Dichloropropene	75		10.078				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 62 Toluene-d8 (Surr)	98	10.314	10.314	0.000	94	1166262	49.0	
63 Toluene	92		10.374				ND	
65 Tetrachloroethene	164	10.823	10.823	0.000	95	29372	5.19	
66 4-Methyl-2-pentanone (MIBK)	43		10.859				ND	
67 trans-1,3-Dichloropropene	75		10.882				ND	
68 1,1,2-Trichloroethane	83		11.060				ND	
70 Chlorodibromomethane	129		11.249				ND	
71 1,3-Dichloropropane	76		11.356				ND	
72 Ethylene Dibromide	107		11.498				ND	
74 2-Hexanone	43	11.770	11.770	0.000	51	53903	23.6	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	89	778234	50.0	
77 Chlorobenzene	112		12.054				ND	
78 Ethylbenzene	91		12.089				ND	
79 1,1,1,2-Tetrachloroethane	131		12.125				ND	
80 m-Xylene & p-Xylene	106		12.243				ND	
82 o-Xylene	106		12.657				ND	
83 Styrene	104		12.717				ND	
84 Bromoform	173		12.728				ND	
85 Isopropylbenzene	105		12.965				ND	
\$ 86 4-Bromofluorobenzene (Surr)	95	13.225	13.225	0.000	85	372680	44.1	
87 Bromobenzene	156		13.320				ND	
88 N-Propylbenzene	91		13.355				ND	
89 1,1,2,2-Tetrachloroethane	83		13.426				ND	
90 2-Chlorotoluene	91		13.486				ND	
91 1,3,5-Trimethylbenzene	105		13.533				ND	
92 1,2,3-Trichloropropane	110		13.545				ND	
95 4-Chlorotoluene	91		13.639				ND	
96 tert-Butylbenzene	119		13.817				ND	
97 1,2,4-Trimethylbenzene	105		13.888				ND	
98 sec-Butylbenzene	105		13.983				ND	
99 4-Isopropyltoluene	119		14.113				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	344826	50.0	
103 n-Butylbenzene	134		14.480				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.320				ND	
110 Naphthalene	128		16.172				ND	
111 1,2,3-Trichlorobenzene	180		16.326				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

I.S. Working_00142
8260 Surr 25_00070

Amount Added: 10.00
Amount Added: 10.00

Units: uL
Units: uL

Run Reagent
Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5180.D

Injection Date: 16-Jan-2017 22:29:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: 280-92896-B-2

Lab Sample ID: 160-92896-2

Worklist Smp#: 14

Client ID: 6MW2203

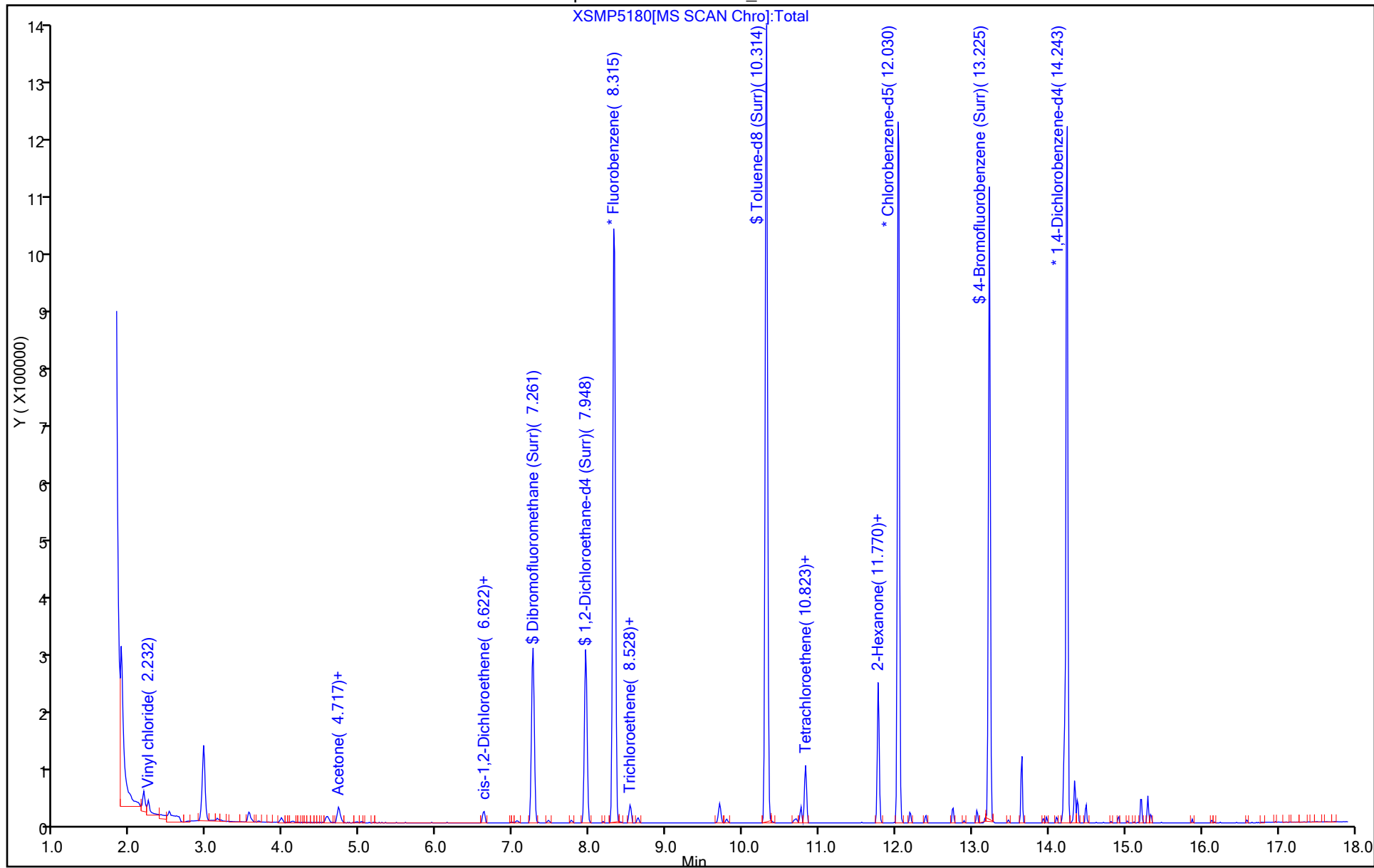
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5180.D
 Lims ID: 280-92896-B-2
 Client ID: 6MW2203
 Sample Type: Client
 Inject. Date: 16-Jan-2017 22:29:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-014
 Misc. Info.: 280-92896-B-2
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:19:59 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess Date: 24-Jan-2017 15:17:30

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	53.9	107.77
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	55.6	111.12
\$ 62 Toluene-d8 (Surr)	50.0	49.0	98.08
\$ 86 4-Bromofluorobenzene (Surr)	50.0	44.1	88.29

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5180.D

Injection Date: 16-Jan-2017 22:29:30

Instrument ID: VMSX

Lims ID: 280-92896-B-2

Lab Sample ID: 160-92896-2

Client ID: 6MW2203

Operator ID: JDH

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

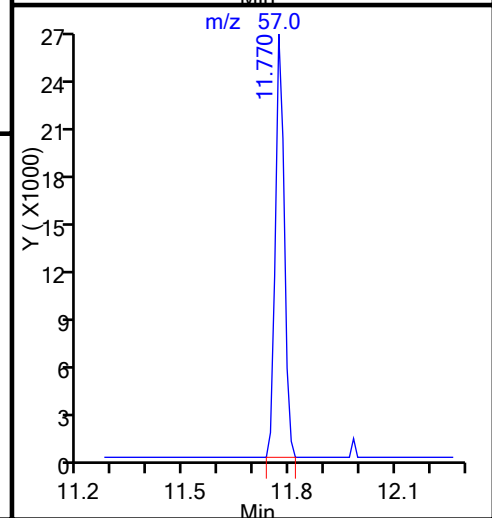
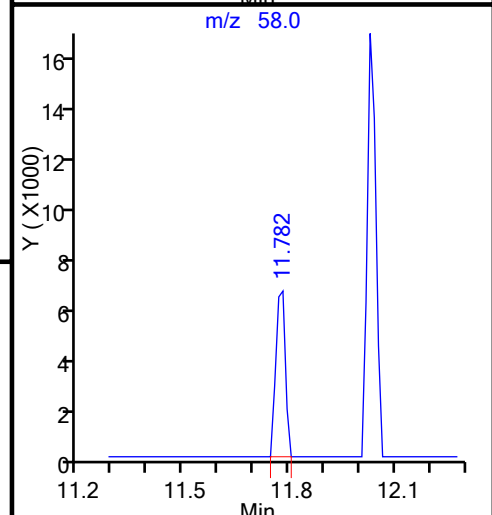
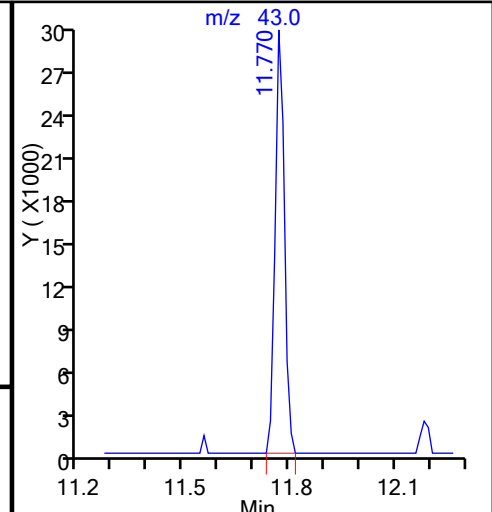
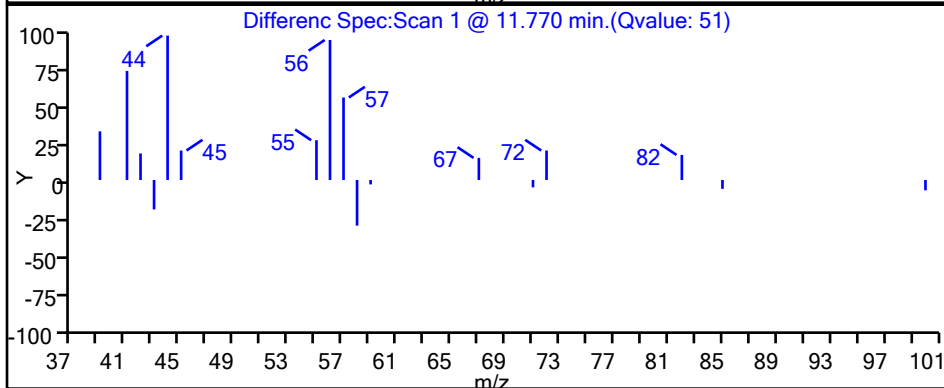
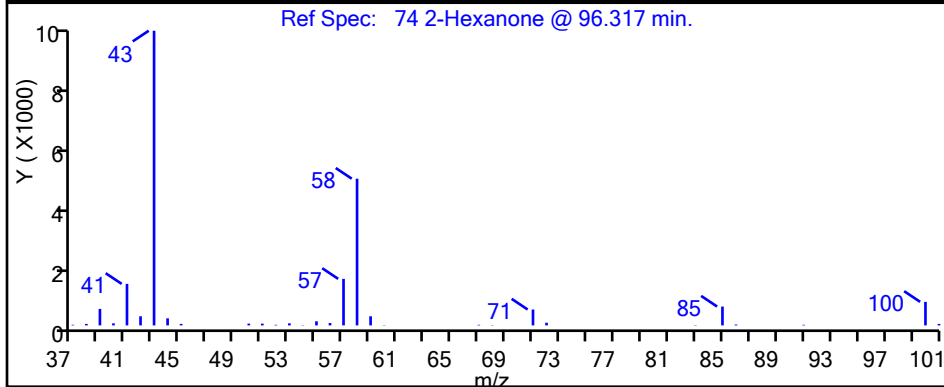
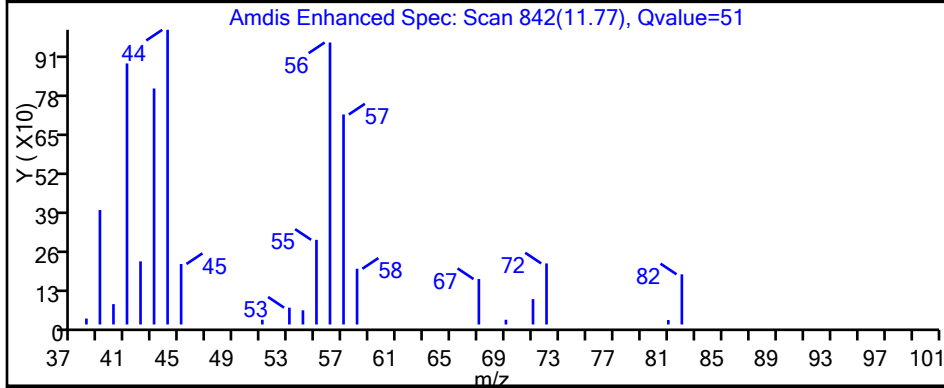
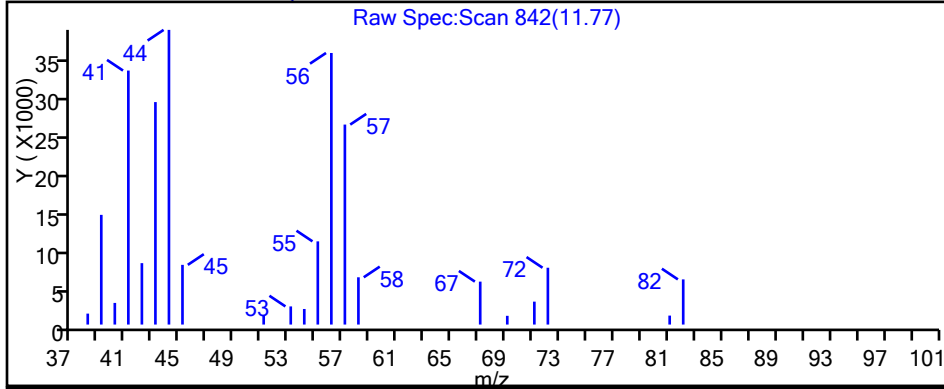
Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector: MS SCAN

74 2-Hexanone, CAS: 591-78-6

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5180.D

Injection Date: 16-Jan-2017 22:29:30

Instrument ID: VMSX

Lims ID: 280-92896-B-2

Lab Sample ID: 160-92896-2

Client ID: 6MW2203

Operator ID: JDH

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

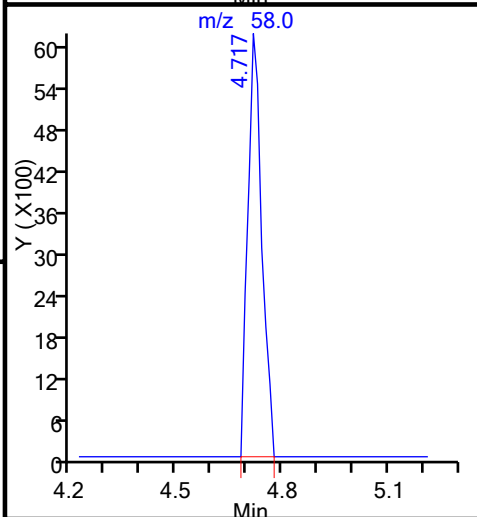
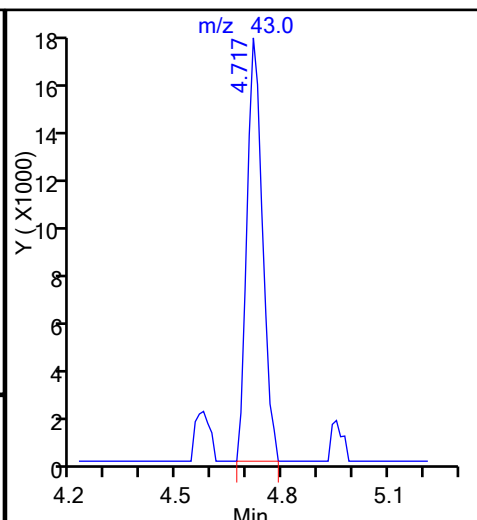
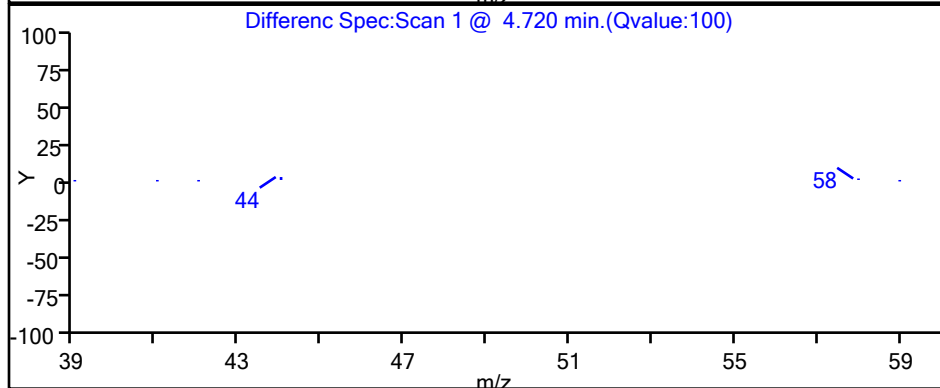
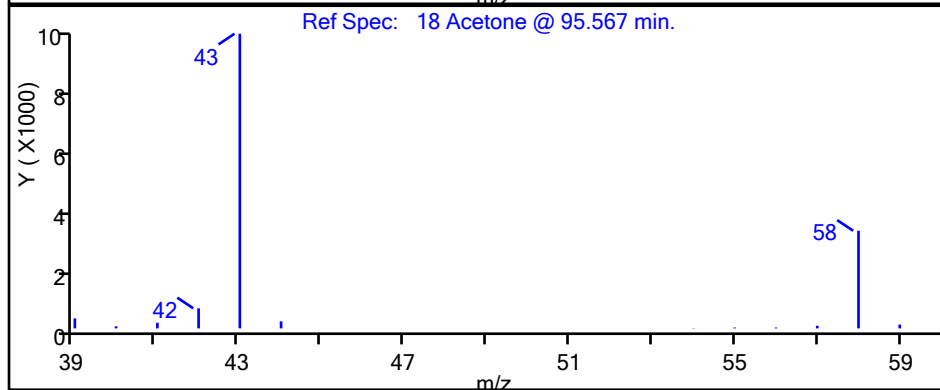
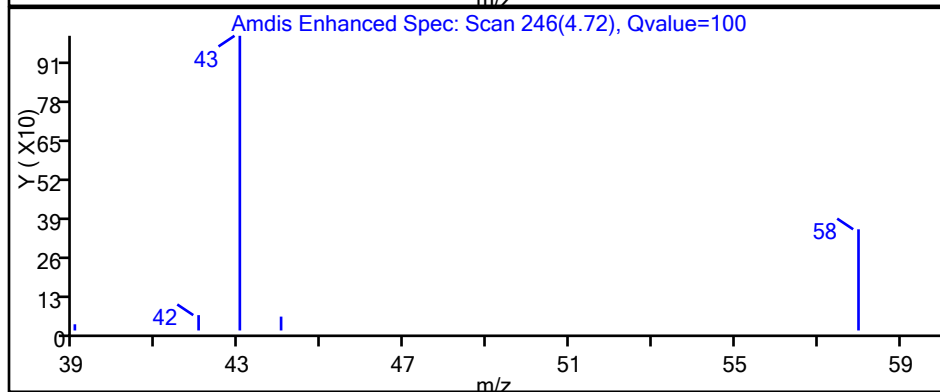
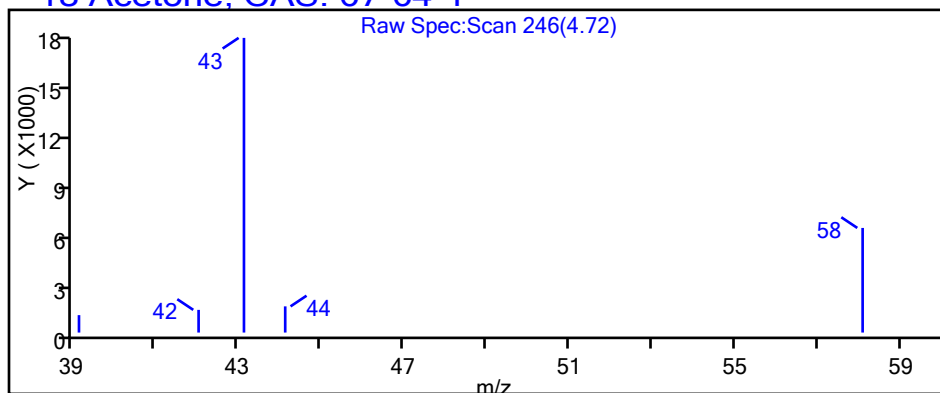
Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

18 Acetone, CAS: 67-64-1

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5180.D

Injection Date: 16-Jan-2017 22:29:30

Instrument ID: VMSX

Lims ID: 280-92896-B-2

Lab Sample ID: 160-92896-2

Client ID: 6MW2203

Operator ID: JDH

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

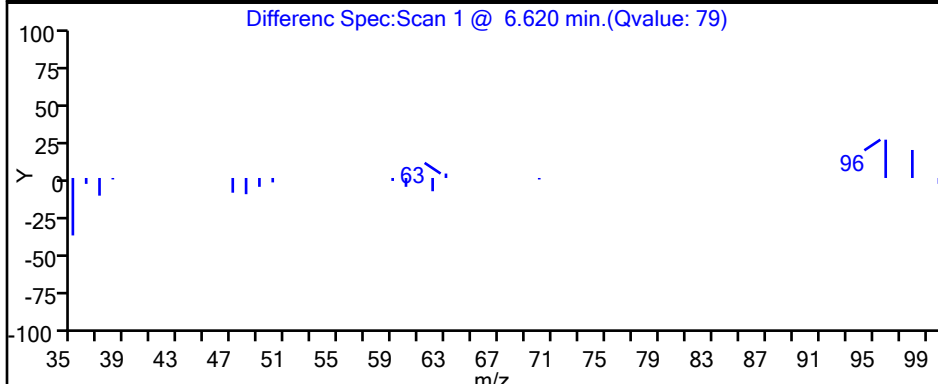
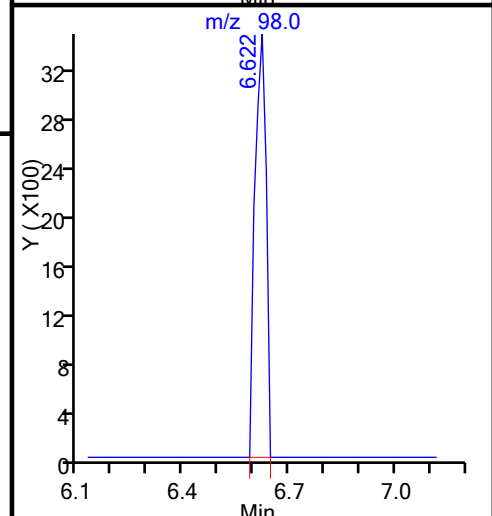
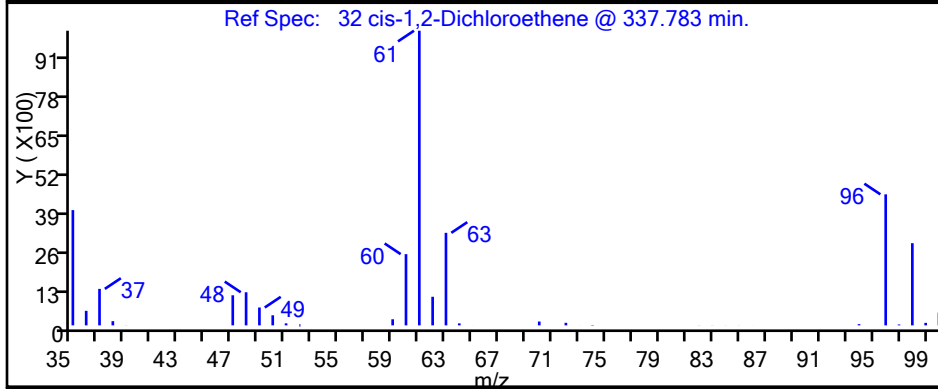
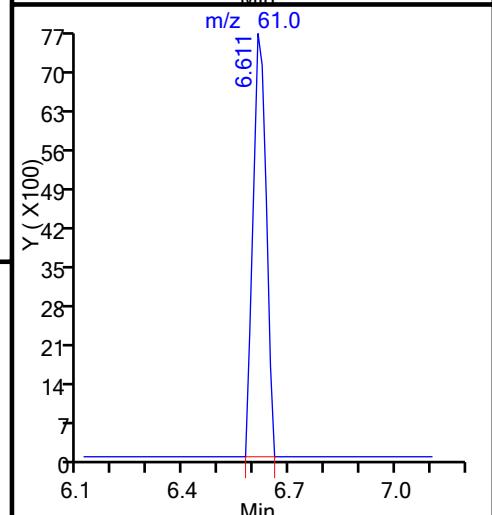
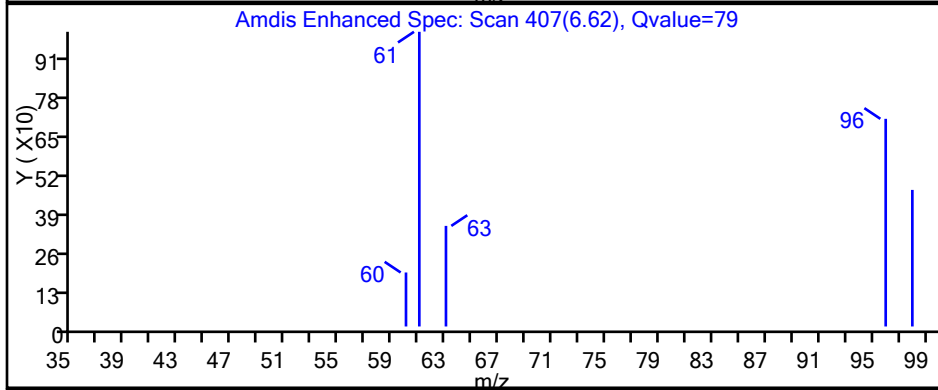
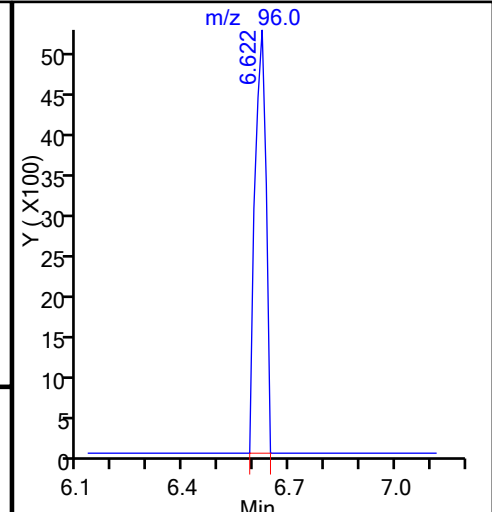
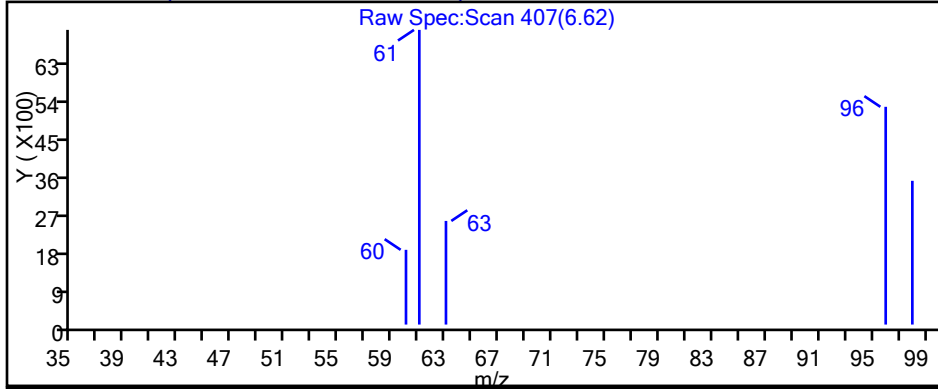
Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5180.D

Injection Date: 16-Jan-2017 22:29:30

Instrument ID: VMSX

Lims ID: 280-92896-B-2

Lab Sample ID: 160-92896-2

Client ID: 6MW2203

Operator ID: JDH

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

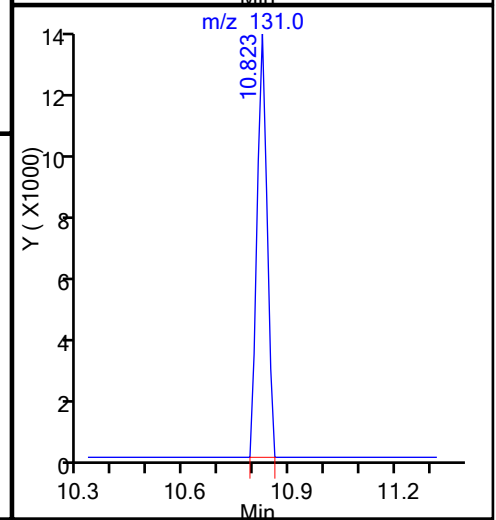
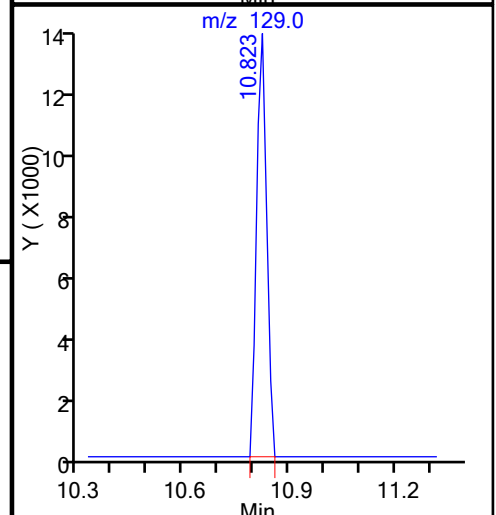
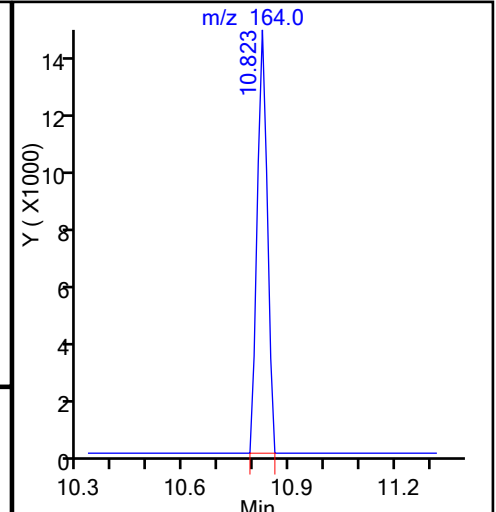
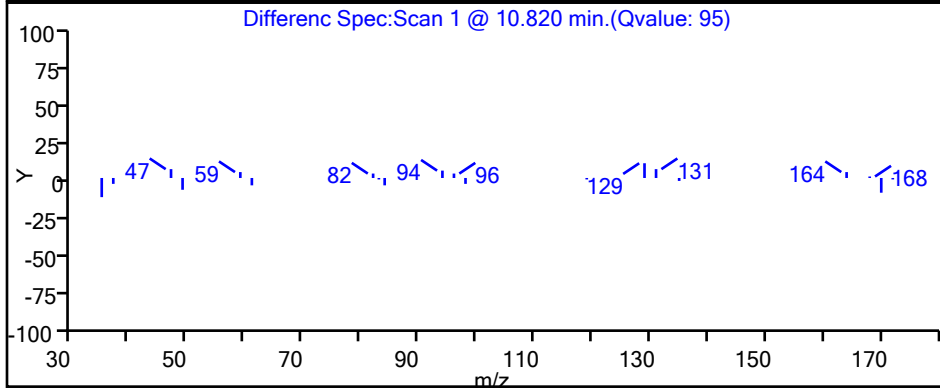
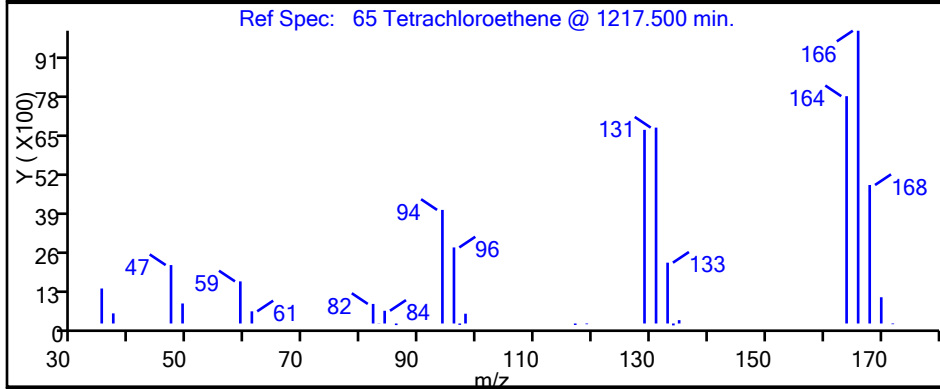
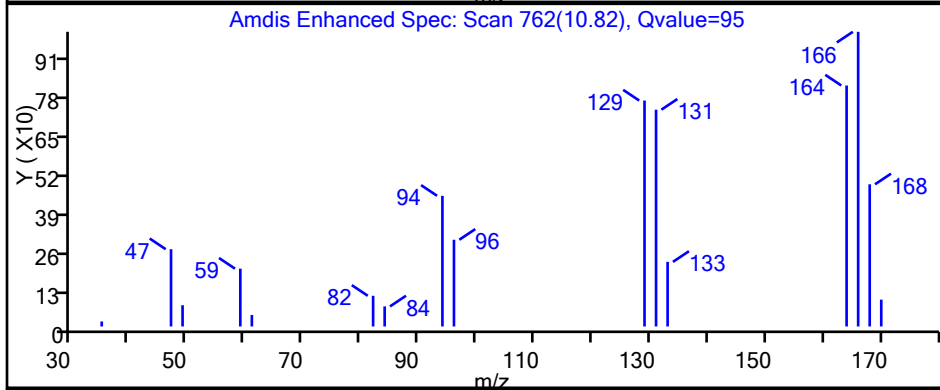
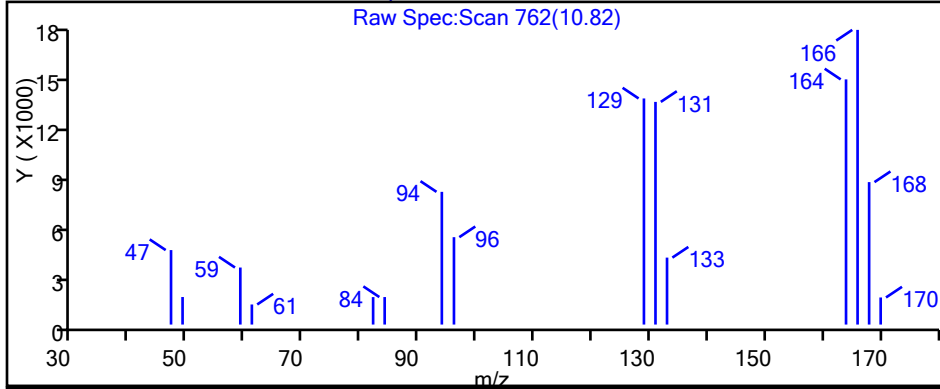
Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

65 Tetrachloroethene, CAS: 127-18-4

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5180.D

Injection Date: 16-Jan-2017 22:29:30

Instrument ID: VMSX

Lims ID: 280-92896-B-2

Lab Sample ID: 160-92896-2

Client ID: 6MW2203

Operator ID: JDH

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

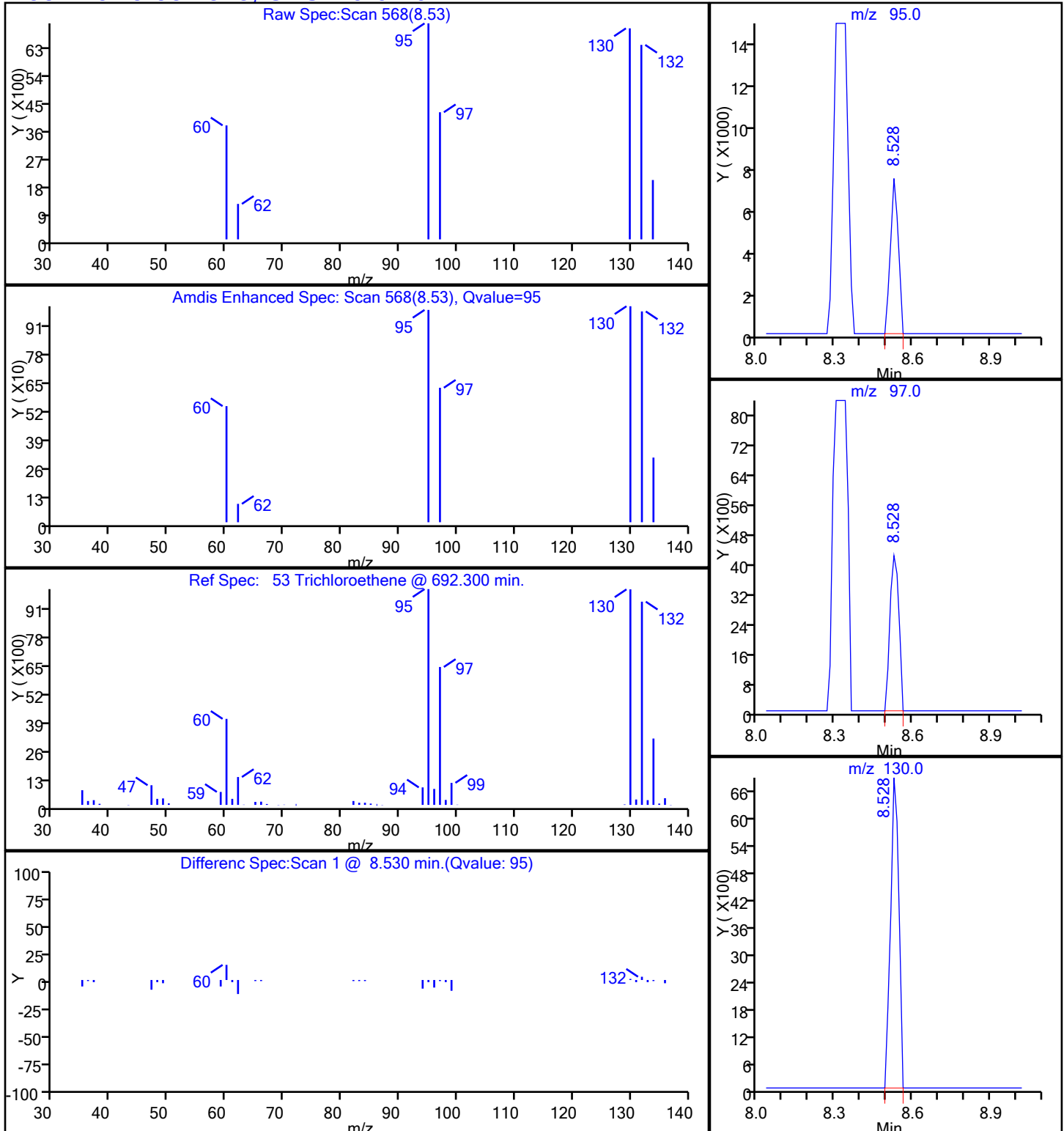
Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

53 Trichloroethene, CAS: 79-01-6

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5180.D

Injection Date: 16-Jan-2017 22:29:30

Instrument ID: VMSX

Lims ID: 280-92896-B-2

Lab Sample ID: 160-92896-2

Client ID: 6MW2203

Operator ID: JDH

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

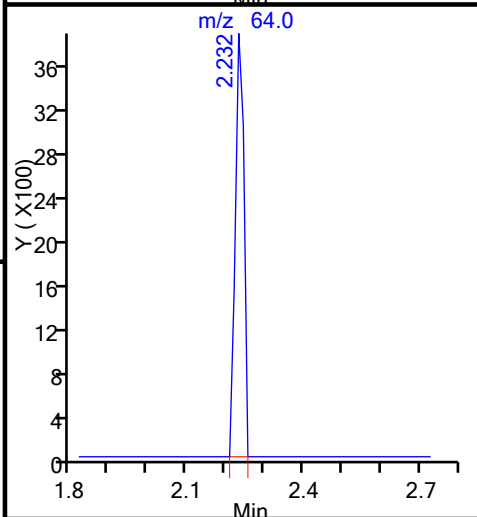
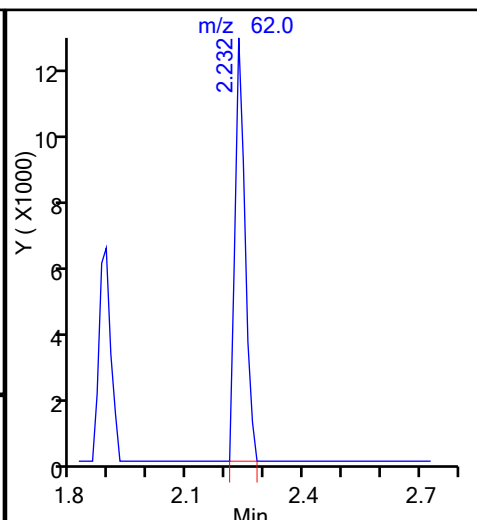
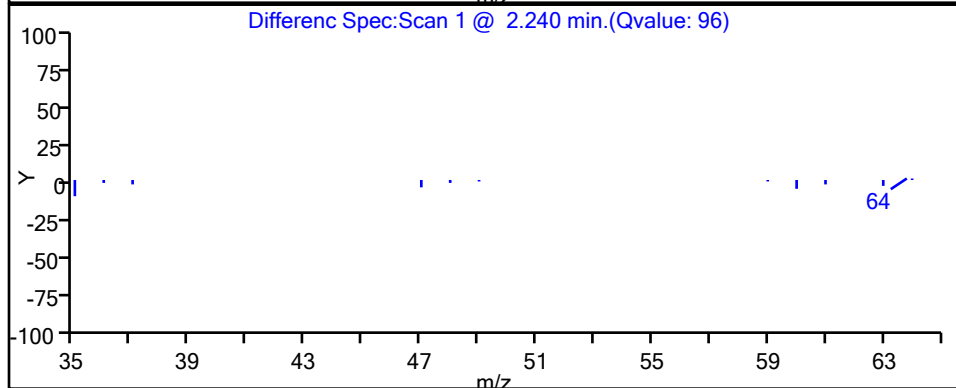
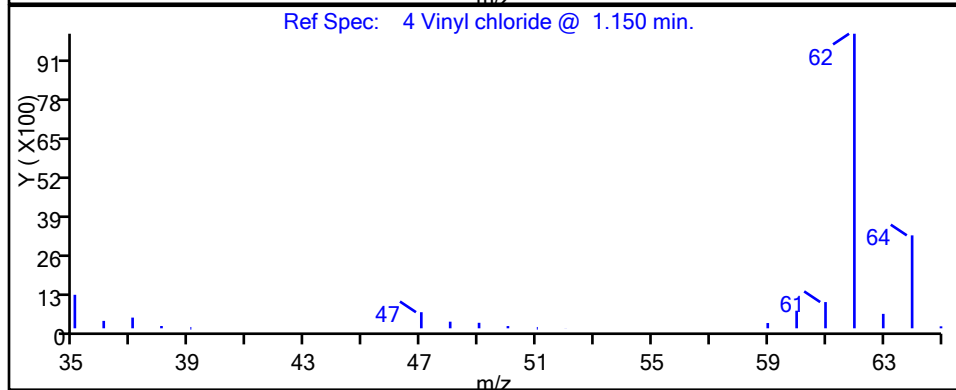
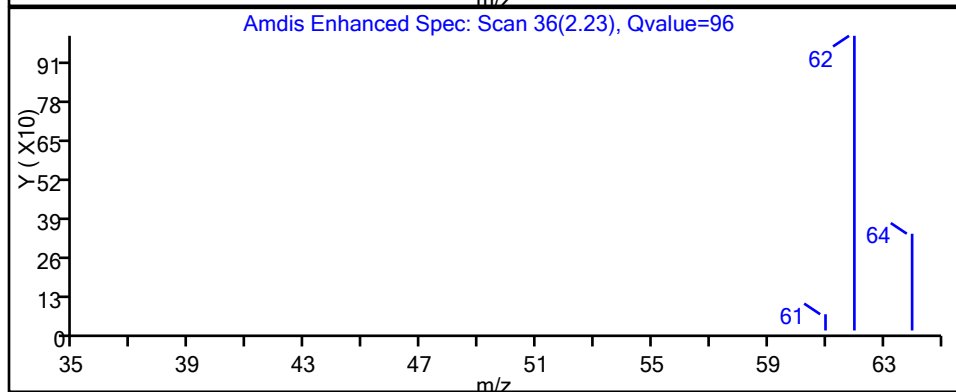
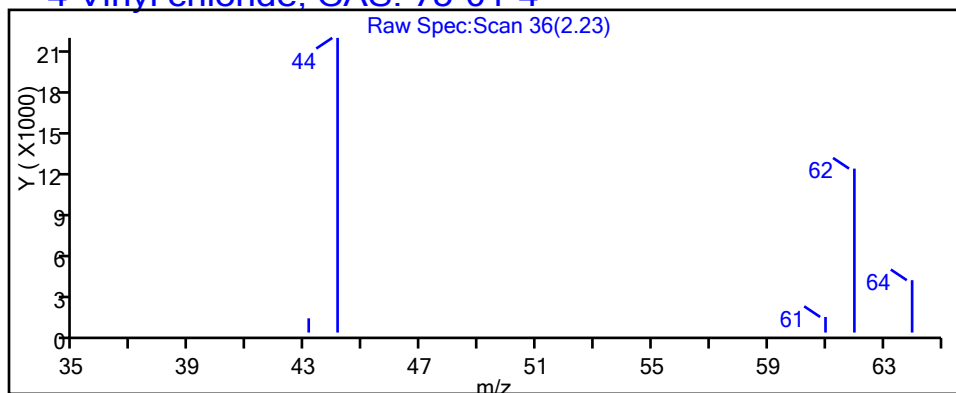
Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: 6MW2303 Lab Sample ID: 280-92896-3

Matrix: Water Lab File ID: XSMP5181.D

Analysis Method: 8260C DOD Date Collected: 01/09/2017 12:45

Sample wt/vol: 5(mL) Date Analyzed: 01/16/2017 22:54

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	0.93	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: 6MW2303 Lab Sample ID: 280-92896-3

Matrix: Water Lab File ID: XSMP5181.D

Analysis Method: 8260C DOD Date Collected: 01/09/2017 12:45

Sample wt/vol: 5 (mL) Date Analyzed: 01/16/2017 22:54

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	0.81	J	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	0.79	J	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		81-118
460-00-4	4-Bromofluorobenzene (Surr)	86		85-114
1868-53-7	Dibromofluoromethane (Surr)	107		80-119
2037-26-5	Toluene-d8 (Surr)	96		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5181.D
 Lims ID: 280-92896-B-3
 Client ID: 6MW2303
 Sample Type: Client
 Inject. Date: 16-Jan-2017 22:54:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-015
 Misc. Info.: 280-92896-B-3
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:19:59 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:17:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.913				ND	
3 Chloromethane	50		2.126				ND	
4 Vinyl chloride	62		2.233				ND	
5 Bromomethane	94		2.623				ND	
6 Chloroethane	64		2.789				ND	
7 Trichlorofluoromethane	101		2.966				ND	
9 1,1-Dichloroethene	96		3.664				ND	
10 Carbon disulfide	76		3.664				ND	
17 Methylene Chloride	84		4.599				ND	
18 Acetone	43		4.717				ND	
19 trans-1,2-Dichloroethene	96		4.859				ND	
22 Methyl tert-butyl ether	73		5.084				ND	
28 1,1-Dichloroethane	63		5.830				ND	
32 cis-1,2-Dichloroethene	96	6.611	6.611	0.000	78	7582	0.9342	
33 2,2-Dichloropropane	77		6.765				ND	
35 Chlorobromomethane	128		6.883				ND	
36 Chloroform	83		7.013				ND	
37 Carbon tetrachloride	117		7.167				ND	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.262	0.000	93	285012	53.6	
40 1,1,1-Trichloroethane	97		7.262				ND	
42 1,1-Dichloropropene	75		7.427				ND	
43 2-Butanone (MEK)	43		7.451				ND	
44 Benzene	78		7.759				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	32	304111	54.1	
49 1,2-Dichloroethane	62		8.043				ND	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1359895	50.0	
53 Trichloroethene	95	8.528	8.528	0.000	88	6027	0.7918	
55 Dibromomethane	93		9.060				ND	
56 1,2-Dichloropropane	63		9.190				ND	
57 Dichlorobromomethane	83		9.285				ND	
61 cis-1,3-Dichloropropene	75		10.078				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 62 Toluene-d8 (Surr)	98	10.315	10.314	0.001	94	1278044	47.8	
63 Toluene	92		10.374				ND	
65 Tetrachloroethene	164	10.823	10.823	0.000	90	5151	0.8108	
66 4-Methyl-2-pentanone (MIBK)	43		10.859				ND	
67 trans-1,3-Dichloropropene	75		10.882				ND	
68 1,1,2-Trichloroethane	83		11.060				ND	
70 Chlorodibromomethane	129		11.249				ND	
71 1,3-Dichloropropane	76		11.356				ND	
72 Ethylene Dibromide	107		11.498				ND	
74 2-Hexanone	43		11.770				ND	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	89	874341	50.0	
77 Chlorobenzene	112		12.054				ND	
78 Ethylbenzene	91		12.089				ND	
79 1,1,1,2-Tetrachloroethane	131		12.125				ND	
80 m-Xylene & p-Xylene	106		12.243				ND	
82 o-Xylene	106		12.657				ND	
83 Styrene	104		12.717				ND	
84 Bromoform	173		12.728				ND	
85 Isopropylbenzene	105		12.965				ND	
\$ 86 4-Bromofluorobenzene (Surr)	95	13.225	13.225	0.000	85	408112	42.8	
87 Bromobenzene	156		13.320				ND	
88 N-Propylbenzene	91		13.355				ND	
89 1,1,2,2-Tetrachloroethane	83		13.426				ND	
90 2-Chlorotoluene	91		13.486				ND	
91 1,3,5-Trimethylbenzene	105		13.533				ND	
92 1,2,3-Trichloropropane	110		13.545				ND	
95 4-Chlorotoluene	91		13.639				ND	
96 tert-Butylbenzene	119		13.817				ND	
97 1,2,4-Trimethylbenzene	105		13.888				ND	
98 sec-Butylbenzene	105		13.983				ND	
99 4-Isopropyltoluene	119		14.113				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	389602	50.0	
103 n-Butylbenzene	134		14.480				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.320				ND	
110 Naphthalene	128		16.172				ND	
111 1,2,3-Trichlorobenzene	180		16.326				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5181.D

Injection Date: 16-Jan-2017 22:54:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: 280-92896-B-3

Lab Sample ID: 160-92896-3

Worklist Smp#: 15

Client ID: 6MW2303

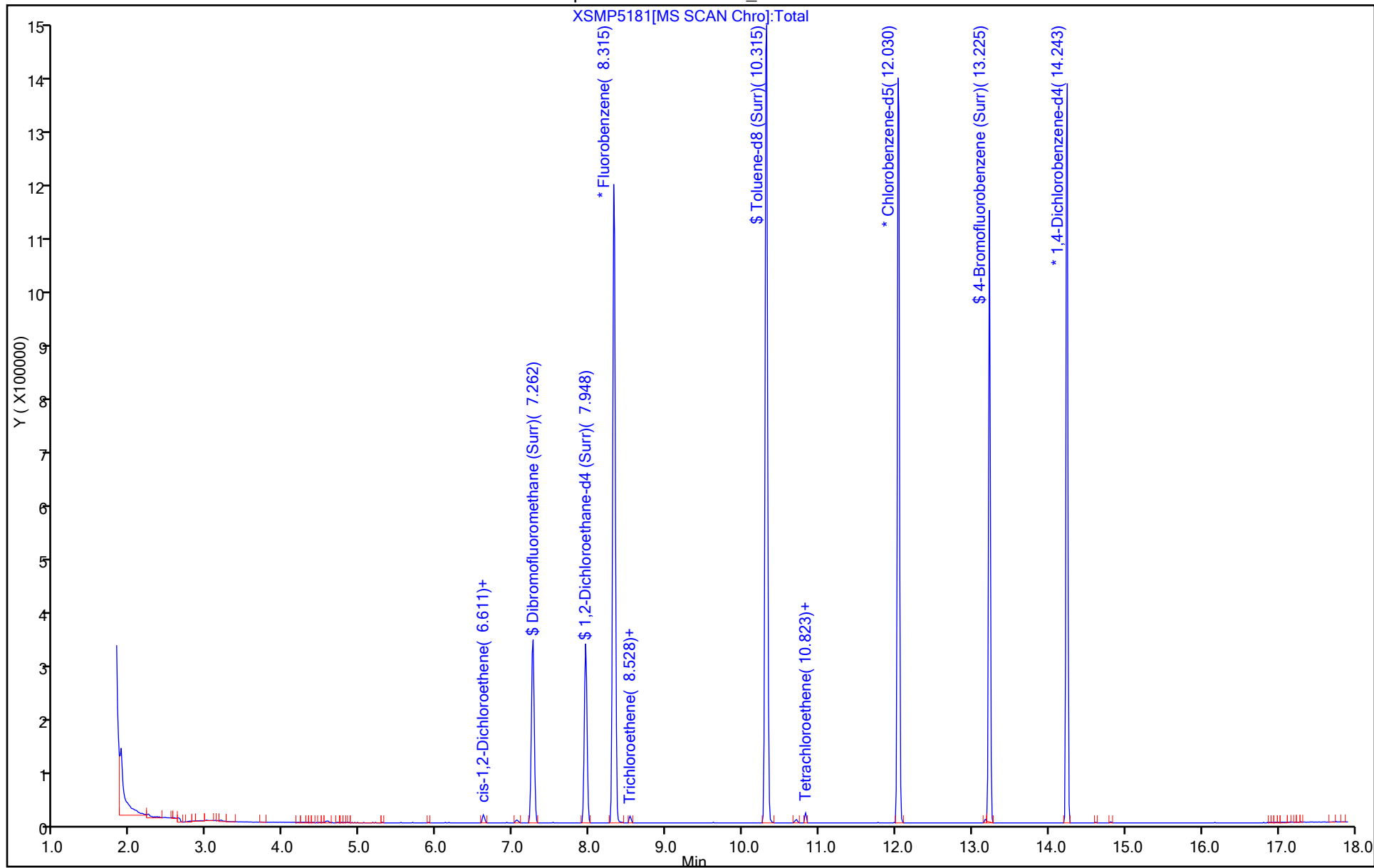
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5181.D
Lims ID: 280-92896-B-3
Client ID: 6MW2303
Sample Type: Client
Inject. Date: 16-Jan-2017 22:54:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009564-015
Misc. Info.: 280-92896-B-3
Operator ID: JDH Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 24-Jan-2017 15:19:59 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D
Column 1 : Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:17:51

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	53.6	107.30
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	54.1	108.21
\$ 62 Toluene-d8 (Surr)	50.0	47.8	95.66
\$ 86 4-Bromofluorobenzene (Surr)	50.0	42.8	85.58

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5181.D

Injection Date: 16-Jan-2017 22:54:30

Instrument ID: VMSX

Lims ID: 280-92896-B-3

Lab Sample ID: 160-92896-3

Client ID: 6MW2303

Operator ID: JDH

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

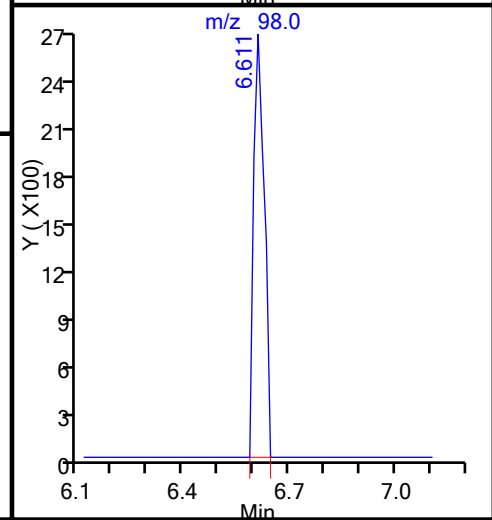
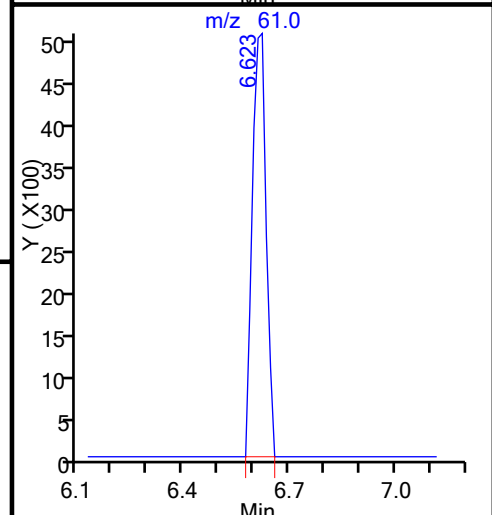
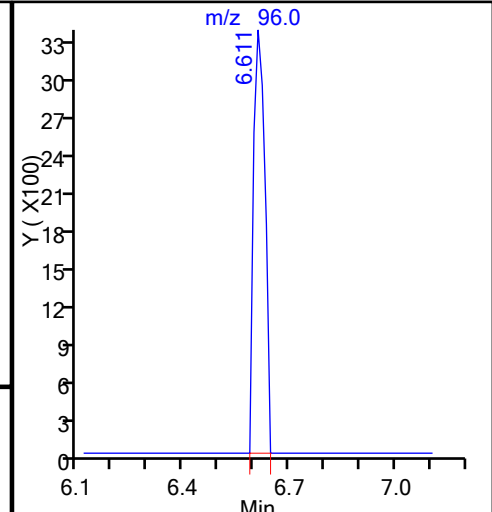
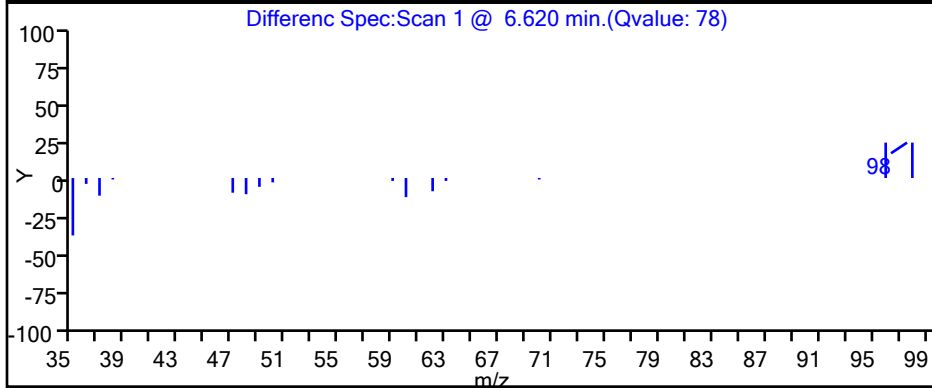
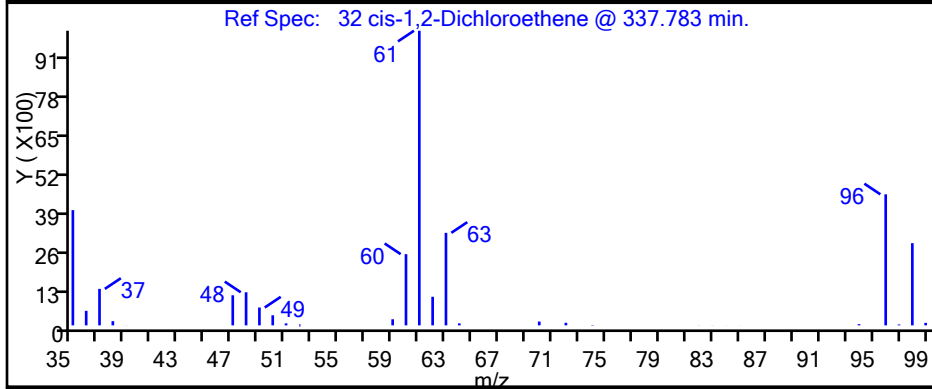
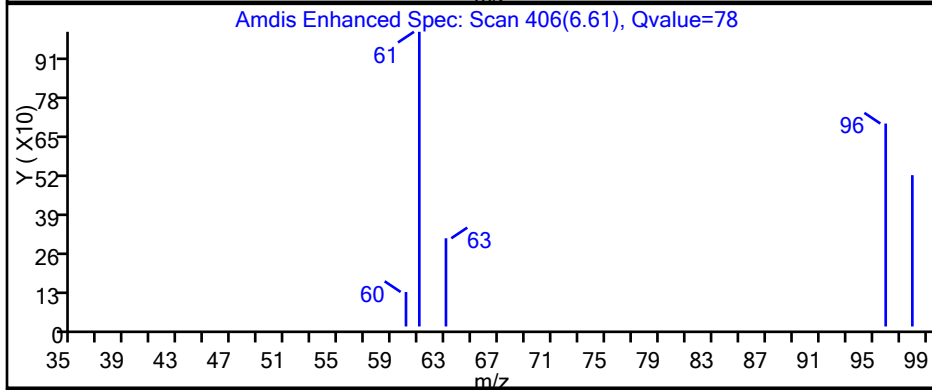
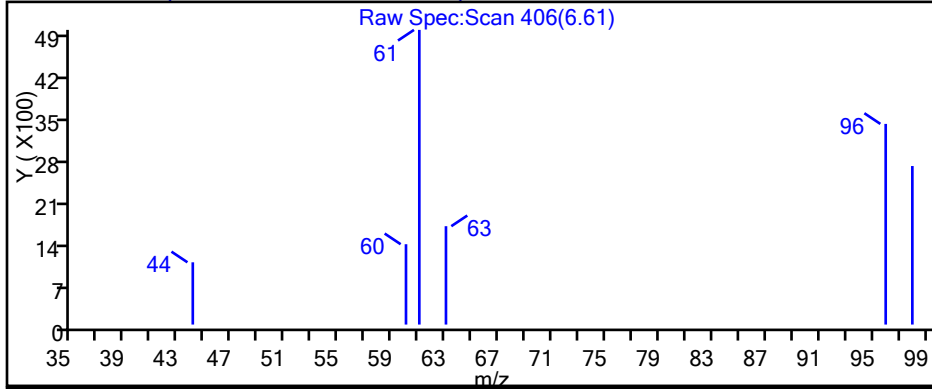
Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5181.D

Injection Date: 16-Jan-2017 22:54:30

Instrument ID: VMSX

Lims ID: 280-92896-B-3

Lab Sample ID: 160-92896-3

Client ID: 6MW2303

Operator ID: JDH

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

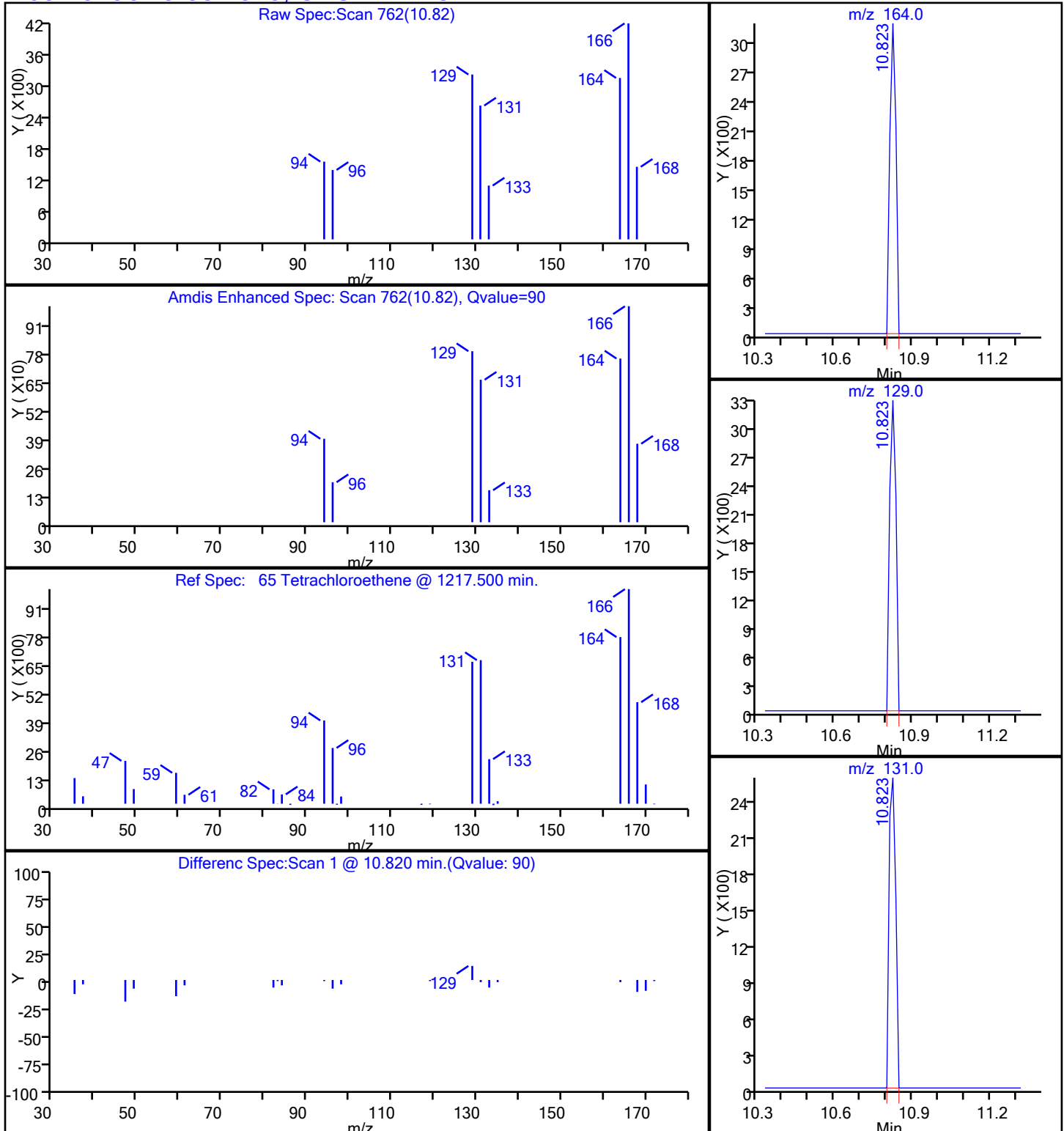
Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

65 Tetrachloroethene, CAS: 127-18-4

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5181.D

Injection Date: 16-Jan-2017 22:54:30

Instrument ID: VMSX

Lims ID: 280-92896-B-3

Lab Sample ID: 160-92896-3

Client ID: 6MW2303

Operator ID: JDH

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

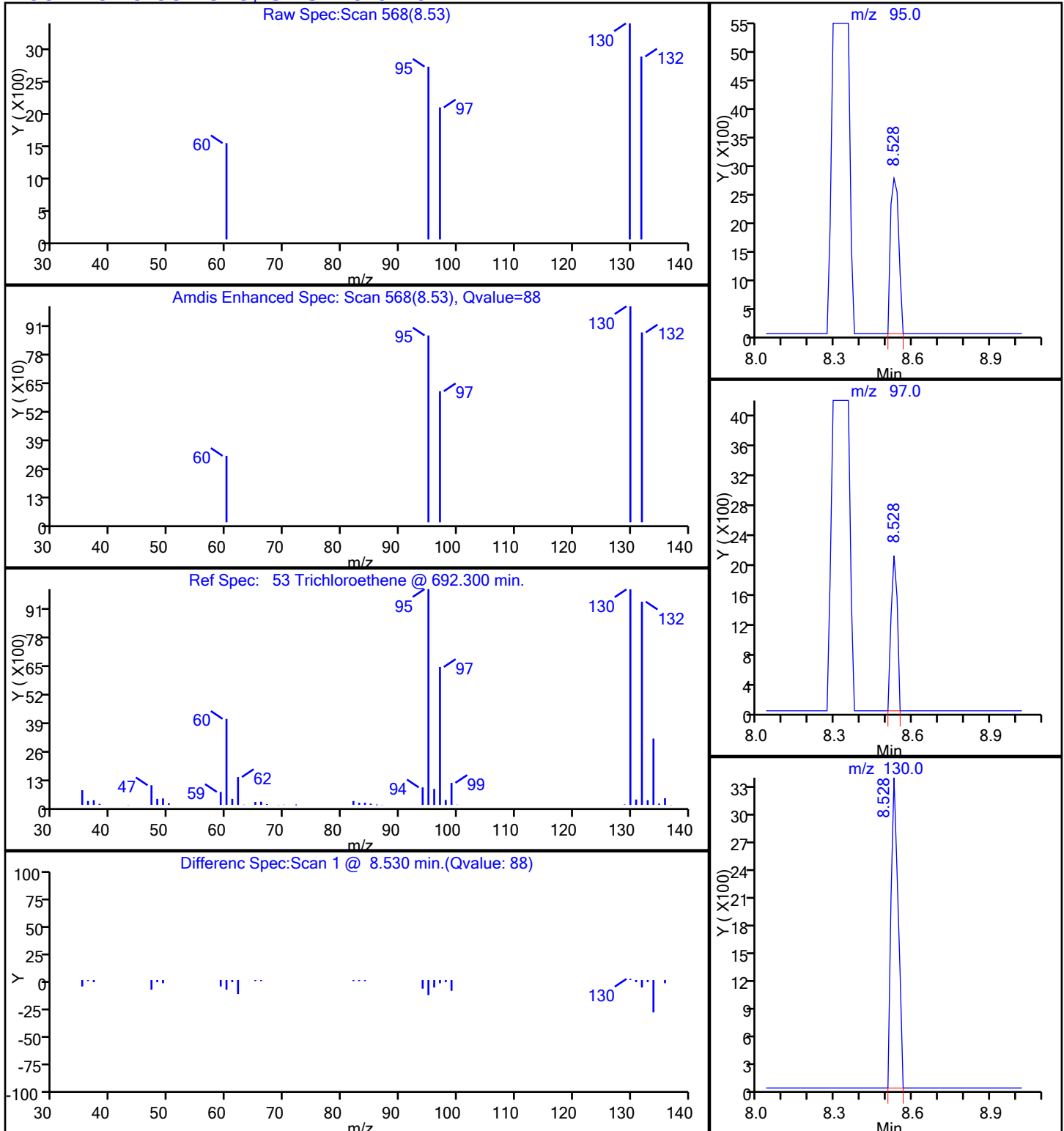
Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector: MS SCAN

53 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica St. Louis</u>	Job No.: <u>280-92896-1</u>
SDG No.: _____	
Client Sample ID: <u>6MW2603 RA</u>	Lab Sample ID: <u>280-92896-4 RA</u>
Matrix: <u>Water</u>	Lab File ID: <u>XSMP5240.D</u>
Analysis Method: <u>8260C DOD</u>	Date Collected: <u>01/09/2017 13:30</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>01/19/2017 18:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RTXVMS30</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>288297</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	0.52	J	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U Q	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	2.5	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica St. Louis</u>	Job No.: <u>280-92896-1</u>
SDG No.: _____	
Client Sample ID: <u>6MW2603 RA</u>	Lab Sample ID: <u>280-92896-4 RA</u>
Matrix: <u>Water</u>	Lab File ID: <u>XSMP5240.D</u>
Analysis Method: <u>8260C DOD</u>	Date Collected: <u>01/09/2017 13:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>01/19/2017 18:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RTXVMS30</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>288297</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		81-118
460-00-4	4-Bromofluorobenzene (Surr)	87		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	97		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XSMP5240.D
 Lims ID: 280-92896-C-4
 Client ID: 6MW2603
 Sample Type: Client
 Inject. Date: 19-Jan-2017 18:57:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009590-011
 Misc. Info.: 280-92896-C-4
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Jan-2017 14:25:25 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: hannj

Date: 23-Jan-2017 14:33:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.913				ND	
3 Chloromethane	50		2.126				ND	
4 Vinyl chloride	62		2.233				ND	
5 Bromomethane	94		2.623				ND	
6 Chloroethane	64		2.789				ND	
7 Trichlorofluoromethane	101		2.966				ND	
9 1,1-Dichloroethene	96		3.664				ND	
10 Carbon disulfide	76		3.676				ND	
17 Methylene Chloride	84		4.599				ND	
18 Acetone	43		4.718				ND	
19 trans-1,2-Dichloroethene	96		4.860				ND	
22 Methyl tert-butyl ether	73		5.084				ND	
28 1,1-Dichloroethane	63		5.830				ND	
32 cis-1,2-Dichloroethene	96	6.622	6.623	-0.001	80	18095	2.52	
33 2,2-Dichloropropane	77		6.765				ND	
35 Chlorobromomethane	128		6.883				ND	
36 Chloroform	83		7.013				ND	
37 Carbon tetrachloride	117		7.167				ND	
\$ 41 Dibromofluoromethane (Surr	113	7.250	7.262	-0.012	92	237704	50.6	
40 1,1,1-Trichloroethane	97		7.262				ND	
42 1,1-Dichloropropene	75		7.439				ND	
43 2-Butanone (MEK)	43		7.463				ND	
44 Benzene	78		7.759				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	31	265083	53.4	
49 1,2-Dichloroethane	62		8.043				ND	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1201324	50.0	
53 Trichloroethene	95		8.528				ND	
55 Dibromomethane	93		9.060				ND	
56 1,2-Dichloropropane	63		9.190				ND	
57 Dichlorobromomethane	83		9.285				ND	
61 cis-1,3-Dichloropropene	75		10.078				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 62 Toluene-d8 (Surr)	98	10.303	10.315	-0.013	94	1122018	48.4	
63 Toluene	92		10.374				ND	
65 Tetrachloroethene	164		10.823				ND	
66 4-Methyl-2-pentanone (MIBK)	43		10.859				ND	
67 trans-1,3-Dichloropropene	75		10.883				ND	
68 1,1,2-Trichloroethane	83		11.060				ND	
70 Chlorodibromomethane	129		11.249				ND	
71 1,3-Dichloropropane	76		11.356				ND	
72 Ethylene Dibromide	107		11.498				ND	
74 2-Hexanone	43		11.770				ND	
* 76 Chlorobenzene-d5	117	12.030	12.042	-0.012	91	758910	50.0	
77 Chlorobenzene	112		12.054				ND	
78 Ethylbenzene	91		12.090				ND	
79 1,1,1,2-Tetrachloroethane	131		12.125				ND	
80 m-Xylene & p-Xylene	106		12.243				ND	
82 o-Xylene	106		12.657				ND	
83 Styrene	104		12.717				ND	
84 Bromoform	173		12.728				ND	
85 Isopropylbenzene	105		12.965				ND	
\$ 86 4-Bromofluorobenzene (Surr)	95	13.225	13.225	0.000	85	362214	43.6	
87 Bromobenzene	156		13.320				ND	
88 N-Propylbenzene	91		13.356				ND	
89 1,1,2,2-Tetrachloroethane	83		13.427				ND	
90 2-Chlorotoluene	91		13.486				ND	
91 1,3,5-Trimethylbenzene	105		13.533				ND	
92 1,2,3-Trichloropropane	110		13.545				ND	
95 4-Chlorotoluene	91		13.640				ND	
96 tert-Butylbenzene	119		13.817				ND	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	90	12915	0.5210	
98 sec-Butylbenzene	105		13.983				ND	
99 4-Isopropyltoluene	119		14.113				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	339240	50.0	
103 n-Butylbenzene	134		14.480				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.320				ND	
110 Naphthalene	128		16.172				ND	
111 1,2,3-Trichlorobenzene	180		16.326				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

I.S. Working_00142
8260 Surr 25_00070

Amount Added: 10.00
Amount Added: 10.00

Units: uL
Units: uL

Run Reagent
Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XSMP5240.D

Injection Date: 19-Jan-2017 18:57:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: 280-92896-C-4

Lab Sample ID: 160-92896-4

Worklist Smp#: 11

Client ID: 6MW2603

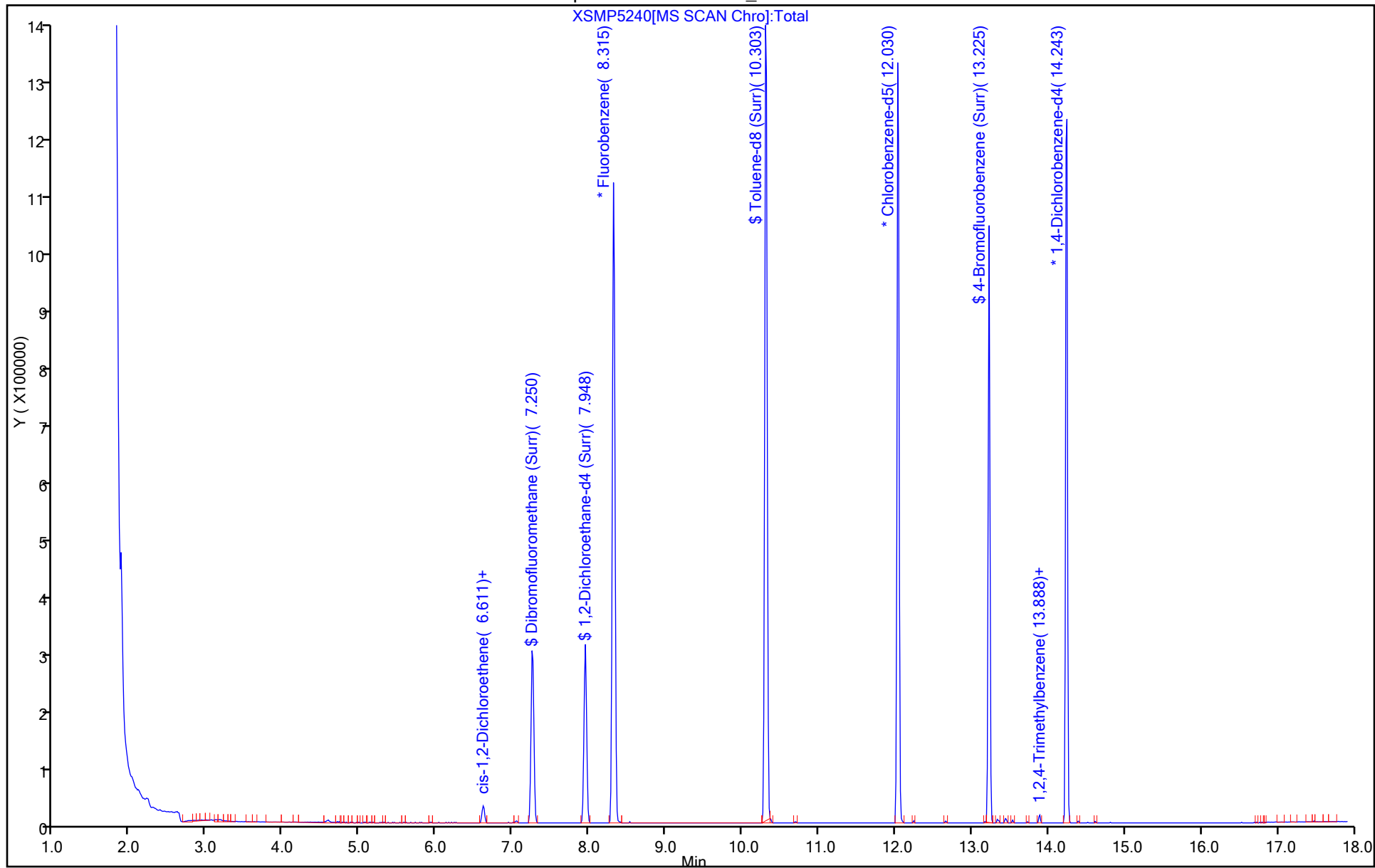
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XSMP5240.D
 Lims ID: 280-92896-C-4
 Client ID: 6MW2603
 Sample Type: Client
 Inject. Date: 19-Jan-2017 18:57:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009590-011
 Misc. Info.: 280-92896-C-4
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Jan-2017 14:25:25 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: hannj Date: 23-Jan-2017 14:33:50

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	50.6	101.30
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	53.4	106.78
\$ 62 Toluene-d8 (Surr)	50.0	48.4	96.76
\$ 86 4-Bromofluorobenzene (Surr)	50.0	43.6	87.23

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XSMP5240.D

Injection Date: 19-Jan-2017 18:57:30

Instrument ID: VMSX

Lims ID: 280-92896-C-4

Lab Sample ID: 160-92896-4

Client ID: 6MW2603

Operator ID: JDH

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

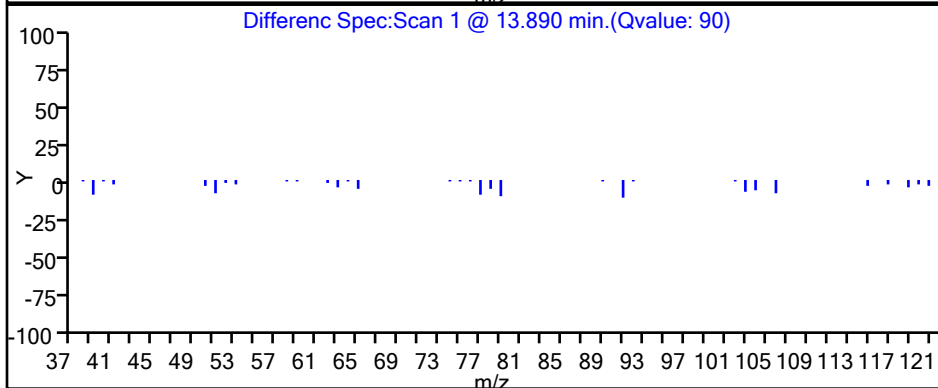
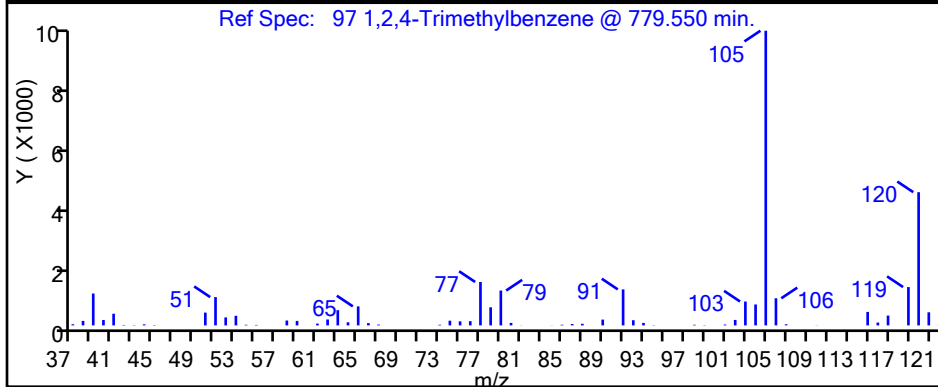
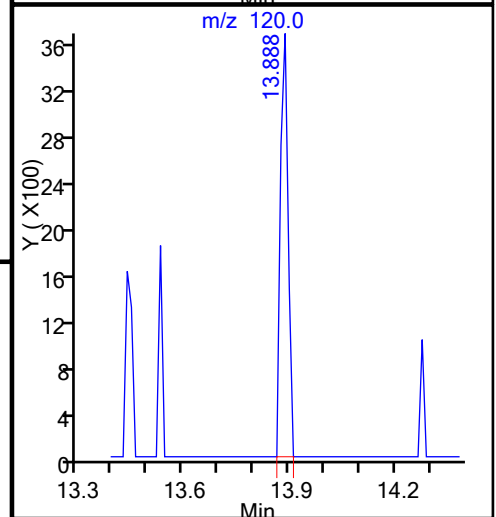
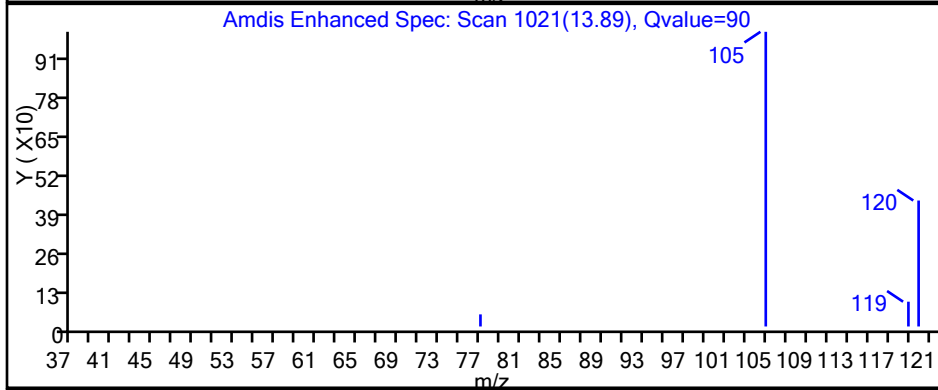
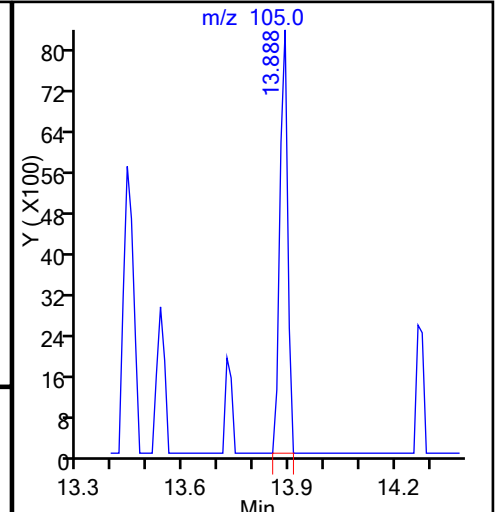
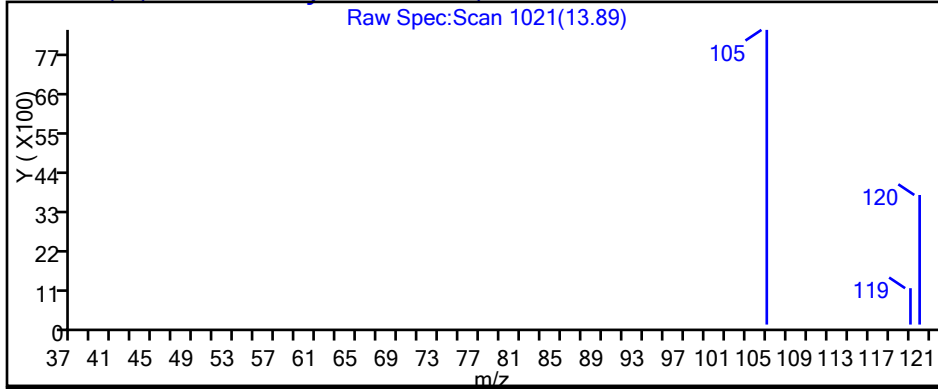
Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

97 1,2,4-Trimethylbenzene, CAS: 95-63-6

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XSMP5240.D

Injection Date: 19-Jan-2017 18:57:30

Instrument ID: VMSX

Lims ID: 280-92896-C-4

Lab Sample ID: 160-92896-4

Client ID: 6MW2603

Operator ID: JDH

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 5.000 mL

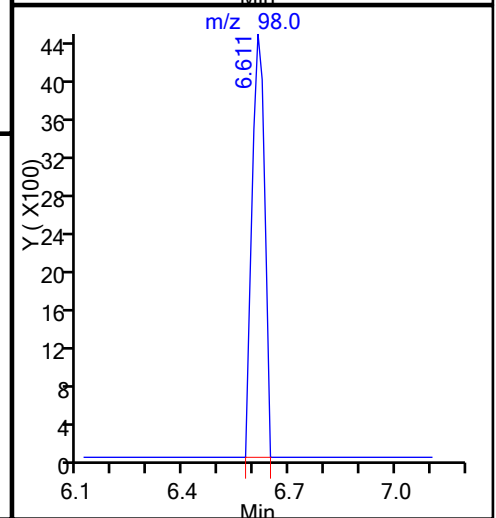
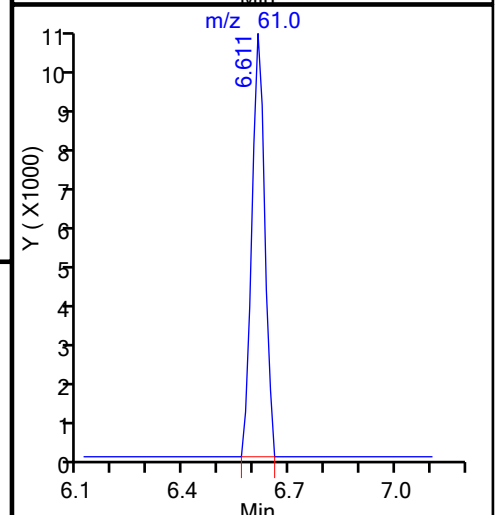
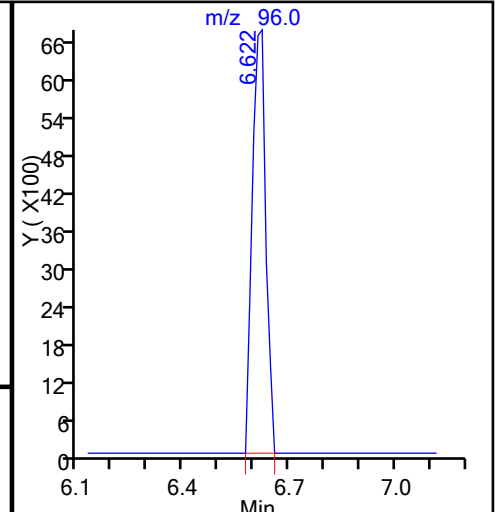
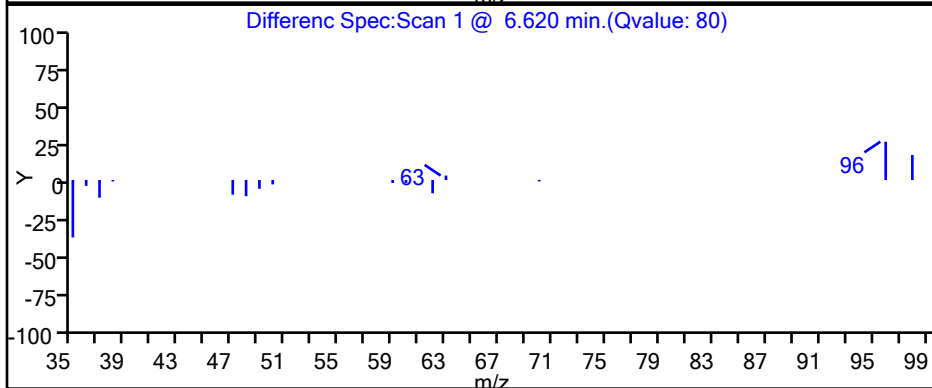
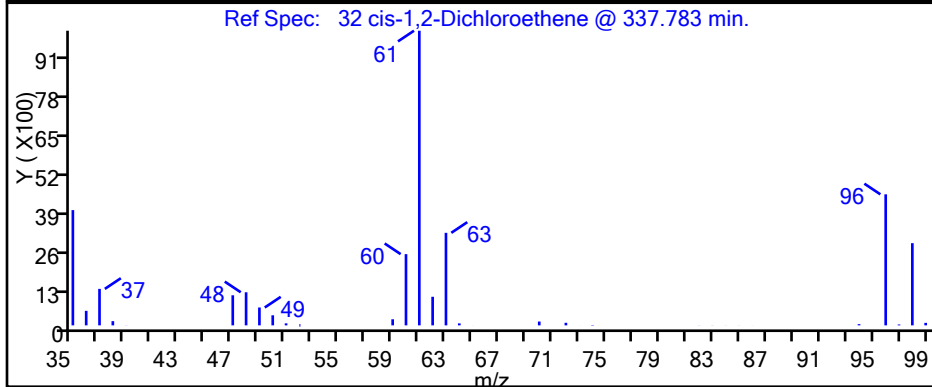
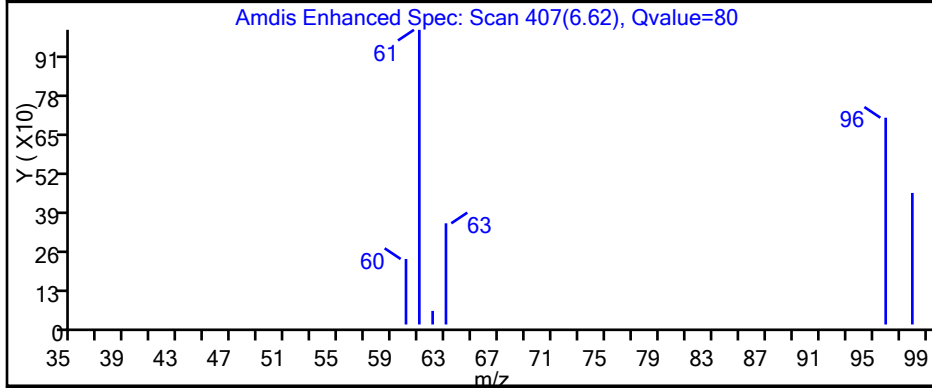
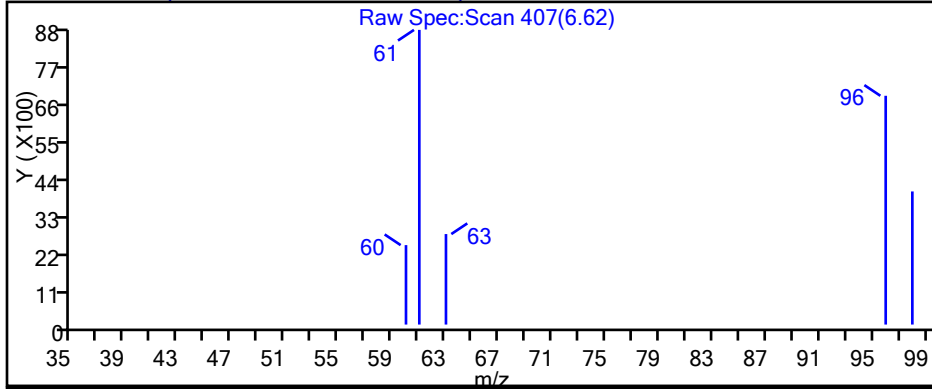
Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: 6MW2503 Lab Sample ID: 280-92896-5

Matrix: Water Lab File ID: XSMP5183.D

Analysis Method: 8260C DOD Date Collected: 01/09/2017 14:15

Sample wt/vol: 5(mL) Date Analyzed: 01/16/2017 23:44

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.5	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Client Sample ID: 6MW2503 Lab Sample ID: 280-92896-5
 Matrix: Water Lab File ID: XSMP5183.D
 Analysis Method: 8260C DOD Date Collected: 01/09/2017 14:15
 Sample wt/vol: 5 (mL) Date Analyzed: 01/16/2017 23:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		81-118
460-00-4	4-Bromofluorobenzene (Surr)	91		85-114
1868-53-7	Dibromofluoromethane (Surr)	114		80-119
2037-26-5	Toluene-d8 (Surr)	101		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5183.D
 Lims ID: 280-92896-B-5
 Client ID: 6MW2503
 Sample Type: Client
 Inject. Date: 16-Jan-2017 23:44:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-017
 Misc. Info.: 280-92896-B-5
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:19:59 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:18:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.913				ND	
3 Chloromethane	50		2.126				ND	
4 Vinyl chloride	62		2.233				ND	
5 Bromomethane	94		2.623				ND	
6 Chloroethane	64		2.789				ND	
7 Trichlorofluoromethane	101		2.966				ND	
9 1,1-Dichloroethene	96		3.664				ND	
10 Carbon disulfide	76		3.664				ND	
17 Methylene Chloride	84		4.599				ND	
18 Acetone	43		4.717				ND	
19 trans-1,2-Dichloroethene	96		4.859				ND	
22 Methyl tert-butyl ether	73		5.084				ND	
28 1,1-Dichloroethane	63		5.830				ND	
32 cis-1,2-Dichloroethene	96	6.623	6.611	0.012	78	12302	1.53	
33 2,2-Dichloropropane	77		6.765				ND	
35 Chlorobromomethane	128		6.883				ND	
36 Chloroform	83		7.013				ND	
37 Carbon tetrachloride	117		7.167				ND	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.262	0.000	93	301309	57.1	
40 1,1,1-Trichloroethane	97		7.262				ND	
42 1,1-Dichloropropene	75		7.427				ND	
43 2-Butanone (MEK)	43		7.451				ND	
44 Benzene	78		7.759				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	32	318717	57.1	
49 1,2-Dichloroethane	62		8.043				ND	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1349913	50.0	
53 Trichloroethene	95		8.528				ND	
55 Dibromomethane	93		9.060				ND	
56 1,2-Dichloropropane	63		9.190				ND	
57 Dichlorobromomethane	83		9.285				ND	
61 cis-1,3-Dichloropropene	75		10.078				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 62 Toluene-d8 (Surr)	98	10.314	10.314	0.000	94	1347607	50.4	
63 Toluene	92		10.374				ND	
65 Tetrachloroethene	164		10.823				ND	
66 4-Methyl-2-pentanone (MIBK)	43		10.859				ND	
67 trans-1,3-Dichloropropene	75		10.882				ND	
68 1,1,2-Trichloroethane	83		11.060				ND	
70 Chlorodibromomethane	129		11.249				ND	
71 1,3-Dichloropropane	76		11.356				ND	
72 Ethylene Dibromide	107		11.498				ND	
74 2-Hexanone	43		11.770				ND	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	89	875634	50.0	
77 Chlorobenzene	112		12.054				ND	
78 Ethylbenzene	91		12.089				ND	
79 1,1,1,2-Tetrachloroethane	131		12.125				ND	
80 m-Xylene & p-Xylene	106		12.243				ND	
82 o-Xylene	106		12.657				ND	
83 Styrene	104		12.717				ND	
84 Bromoform	173		12.728				ND	
85 Isopropylbenzene	105		12.965				ND	
\$ 86 4-Bromofluorobenzene (Surr)	95	13.225	13.225	0.000	85	432631	45.3	
87 Bromobenzene	156		13.320				ND	
88 N-Propylbenzene	91		13.355				ND	
89 1,1,2,2-Tetrachloroethane	83		13.426				ND	
90 2-Chlorotoluene	91		13.486				ND	
91 1,3,5-Trimethylbenzene	105		13.533				ND	
92 1,2,3-Trichloropropane	110		13.545				ND	
95 4-Chlorotoluene	91		13.639				ND	
96 tert-Butylbenzene	119		13.817				ND	
97 1,2,4-Trimethylbenzene	105		13.888				ND	
98 sec-Butylbenzene	105		13.983				ND	
99 4-Isopropyltoluene	119		14.113				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	390416	50.0	
103 n-Butylbenzene	134		14.480				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.320				ND	
110 Naphthalene	128		16.172				ND	
111 1,2,3-Trichlorobenzene	180		16.326				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

I.S. Working_00142
8260 Surr 25_00070

Amount Added: 10.00
Amount Added: 10.00

Units: uL
Units: uL

Run Reagent
Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5183.D

Injection Date: 16-Jan-2017 23:44:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: 280-92896-B-5

Lab Sample ID: 160-92896-5

Worklist Smp#: 17

Client ID: 6MW2503

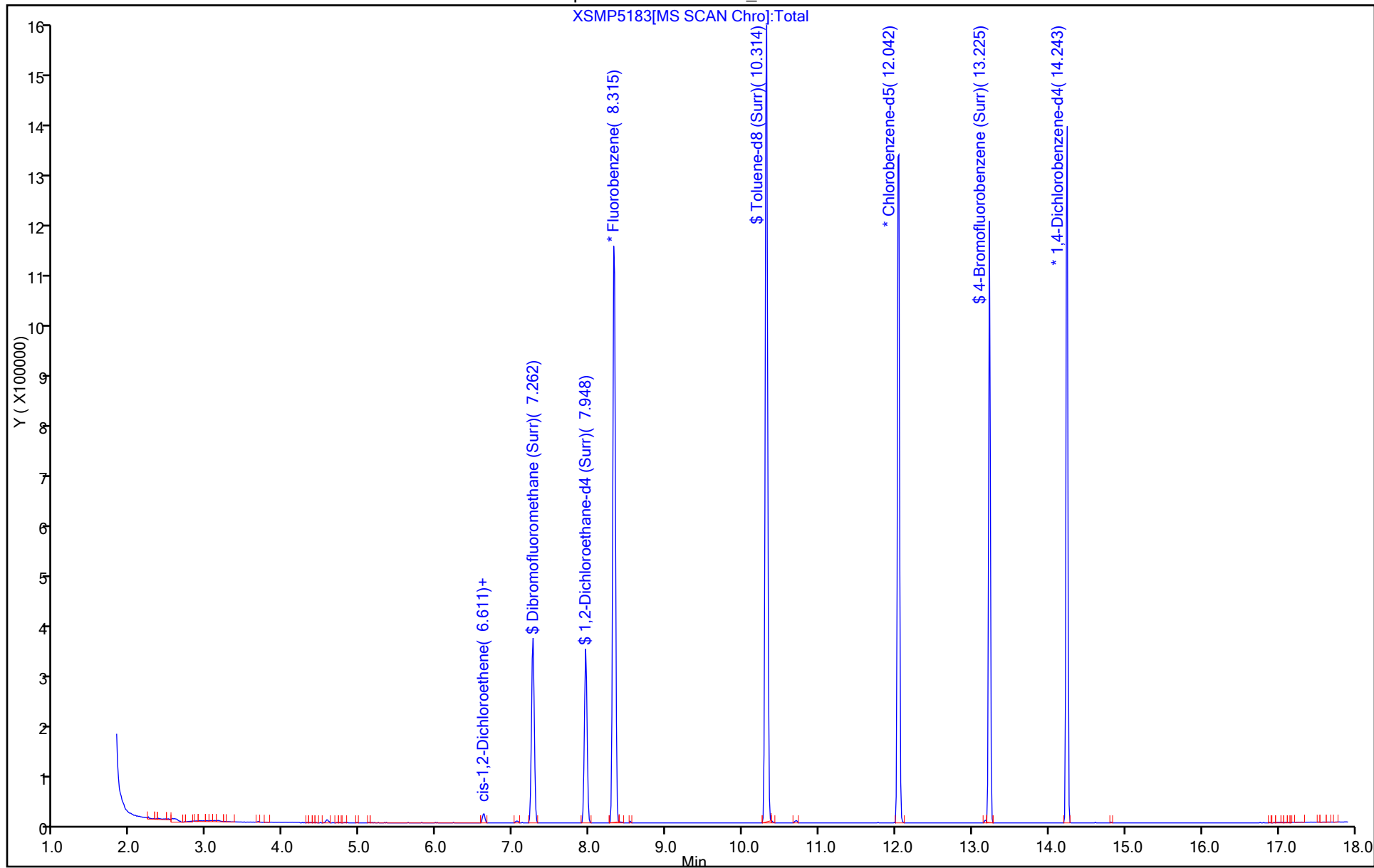
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5183.D
 Lims ID: 280-92896-B-5
 Client ID: 6MW2503
 Sample Type: Client
 Inject. Date: 16-Jan-2017 23:44:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-017
 Misc. Info.: 280-92896-B-5
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:19:59 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:18:36

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	57.1	114.27
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	57.1	114.25
\$ 62 Toluene-d8 (Surr)	50.0	50.4	100.72
\$ 86 4-Bromofluorobenzene (Surr)	50.0	45.3	90.53

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5183.D

Injection Date: 16-Jan-2017 23:44:30

Instrument ID: VMSX

Lims ID: 280-92896-B-5

Lab Sample ID: 160-92896-5

Client ID: 6MW2503

Operator ID: JDH

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

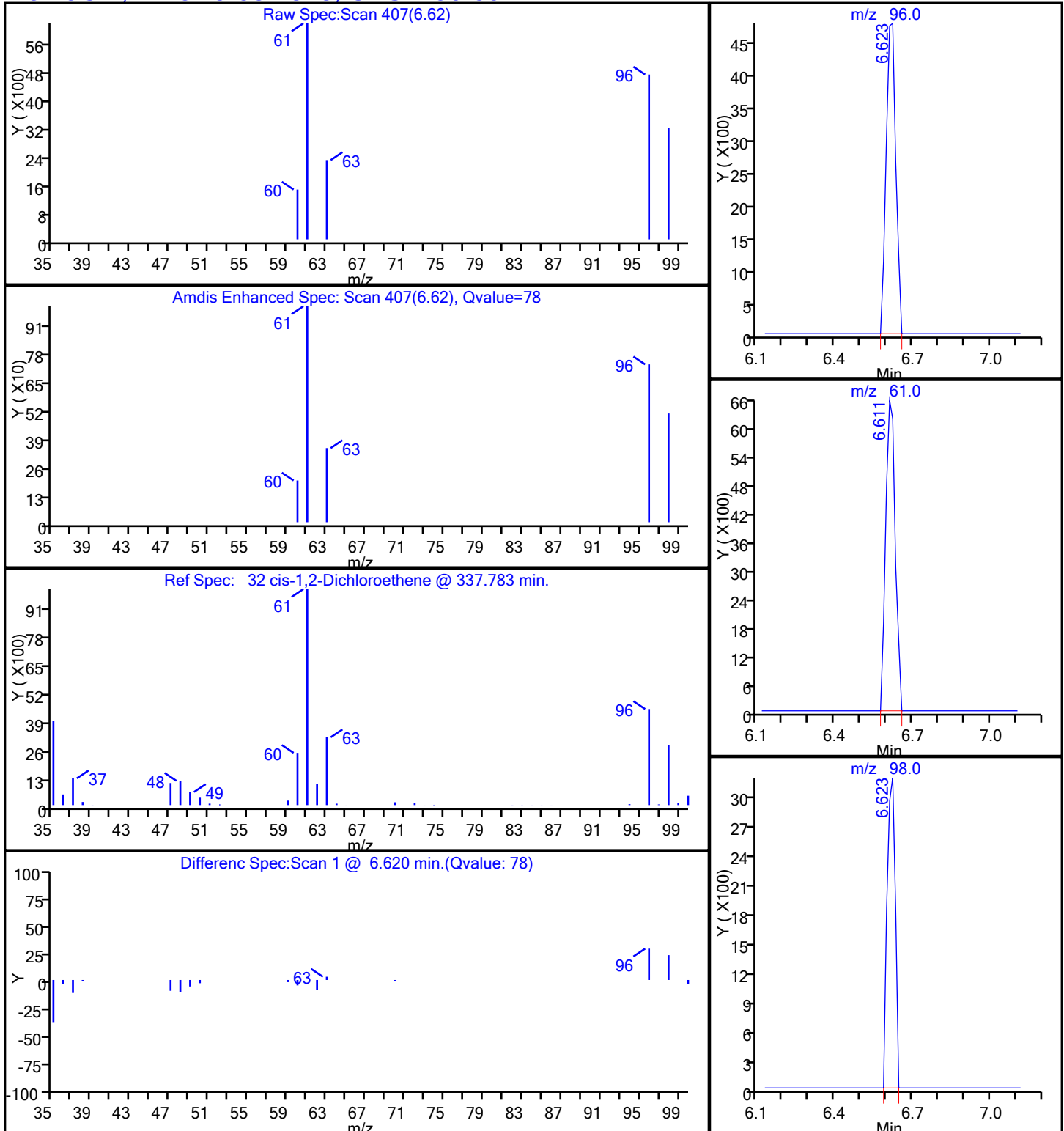
Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: 6MW2003 Lab Sample ID: 280-92896-6

Matrix: Water Lab File ID: XSMP5175.D

Analysis Method: 8260C DOD Date Collected: 01/09/2017 15:00

Sample wt/vol: 5(mL) Date Analyzed: 01/16/2017 20:24

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	3.1	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: 6MW2003 Lab Sample ID: 280-92896-6

Matrix: Water Lab File ID: XSMP5175.D

Analysis Method: 8260C DOD Date Collected: 01/09/2017 15:00

Sample wt/vol: 5 (mL) Date Analyzed: 01/16/2017 20:24

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	2.3	J	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		81-118
460-00-4	4-Bromofluorobenzene (Surr)	89		85-114
1868-53-7	Dibromofluoromethane (Surr)	109		80-119
2037-26-5	Toluene-d8 (Surr)	99		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5175.D
 Lims ID: 280-92896-C-6
 Client ID: 6MW2003
 Sample Type: Client
 Inject. Date: 16-Jan-2017 20:24:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-009
 Misc. Info.: 280-92896-C-6
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:14:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.913				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.067				ND	
3 Chloromethane	50		2.126				ND	
4 Vinyl chloride	62	2.232	2.233	-0.001	95	21845	2.27	
121 Butadiene	39		2.256				ND	
5 Bromomethane	94		2.623				ND	
6 Chloroethane	64		2.789				ND	
7 Trichlorofluoromethane	101		2.966				ND	
122 Dichlorofluoromethane	67		3.061				ND	
8 Ethyl ether	74		3.404				ND	
11 Ethanol	45		3.653				ND	
9 1,1-Dichloroethene	96		3.664				ND	
10 Carbon disulfide	76		3.664				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		3.771				ND	
13 Iodomethane	142		3.854				ND	
14 Acrolein	56		4.197				ND	
15 3-Chloro-1-propene	39		4.422				ND	
16 Isopropyl alcohol	45	4.564	4.564	0.000	97	15008	71.9	
17 Methylene Chloride	84		4.587				ND	
18 Acetone	43		4.706				ND	
19 trans-1,2-Dichloroethene	96		4.860				ND	
20 Methyl acetate	74		4.942				ND	
21 Hexane	86		5.013				ND	
22 Methyl tert-butyl ether	73		5.084				ND	
23 2-Methyl-2-propanol	59		5.297				ND	
24 Acetonitrile	41		5.439				ND	
25 Isopropyl ether	45		5.700				ND	
27 2-Chloro-1,3-butadiene	53		5.794				ND	
S 26 1,2-Dichloroethene, Total	96				0		3.15	
28 1,1-Dichloroethane	63		5.830				ND	
29 Acrylonitrile	53		5.925				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		6.244				ND	
31 Vinyl acetate	43		6.256				ND	
32 cis-1,2-Dichloroethene	96	6.611	6.611	0.000	81	25113	3.15	
33 2,2-Dichloropropane	77		6.753				ND	
34 Cyclohexane	84		6.859				ND	
35 Chlorobromomethane	128		6.883				ND	
36 Chloroform	83		7.013				ND	
37 Carbon tetrachloride	117		7.155				ND	
38 Tetrahydrofuran	71		7.214				ND	
39 Ethyl acetate	45		7.226				ND	
\$ 41 Dibromofluoromethane (Surr	113	7.261	7.250	0.011	93	284508	54.5	
40 1,1,1-Trichloroethane	97		7.262				ND	
42 1,1-Dichloropropene	75		7.427				ND	
43 2-Butanone (MEK)	43		7.451				ND	
124 Isooctane	57		7.593				ND	
117 n-Heptane	43		7.759				ND	
44 Benzene	78		7.759				ND	
45 Propionitrile	54		7.830				ND	
46 Methacrylonitrile	41		7.853				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	32	305689	55.3	
48 Tert-amyl methyl ether	73		7.960				ND	
49 1,2-Dichloroethane	62		8.031				ND	
50 Isobutyl alcohol	42		8.149				ND	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1337161	50.0	
125 1,4-Difluorobenzene	114		8.427				ND	
52 Methylcyclohexane	55		8.492				ND	
53 Trichloroethene	95		8.528				ND	
A 126 C6-C12	1	8.945	(3.966-13.924)		0	311862	NC	
54 n-Butanol	56		9.037				ND	
55 Dibromomethane	93		9.048				ND	
56 1,2-Dichloropropane	63		9.190				ND	
123 Ethyl acrylate	55		9.273				ND	
57 Dichlorobromomethane	83		9.285				ND	
58 Methyl methacrylate	69		9.522				ND	
59 1,4-Dioxane	88		9.545				ND	
128 2-Pentanone	43		9.634				ND	
60 2-Chloroethyl vinyl ether	63		10.031				ND	
61 cis-1,3-Dichloropropene	75		10.078				ND	
\$ 62 Toluene-d8 (Surr)	98	10.314	10.303	0.011	94	1293606	49.3	
63 Toluene	92		10.374				ND	
64 2-Nitropropane	43		10.670				ND	
65 Tetrachloroethene	164		10.823				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.859				ND	
67 trans-1,3-Dichloropropene	75		10.882				ND	
68 1,1,2-Trichloroethane	83		11.060				ND	
69 Ethyl methacrylate	69		11.095				ND	
70 Chlorodibromomethane	129		11.249				ND	
71 1,3-Dichloropropane	76		11.356				ND	
72 Ethylene Dibromide	107		11.498				ND	
S 73 1,3-Dichloropropene, Total	75		11.620				ND	
118 n-Butyl acetate	43		11.687				ND	
74 2-Hexanone	43		11.770				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	12.042	12.030	0.012	89	858559	50.0	
75 1-Chlorohexane	91		12.042				ND	
77 Chlorobenzene	112		12.054				ND	
78 Ethylbenzene	91		12.089				ND	
79 1,1,1,2-Tetrachloroethane	131		12.125				ND	
80 m-Xylene & p-Xylene	106		12.243				ND	
82 o-Xylene	106		12.657				ND	
83 Styrene	104		12.717				ND	
84 Bromoform	173		12.728				ND	
85 Isopropylbenzene	105		12.965				ND	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	85	418676	44.7	
87 Bromobenzene	156		13.320				ND	
88 N-Propylbenzene	91		13.356				ND	
89 1,1,2,2-Tetrachloroethane	83		13.415				ND	
90 2-Chlorotoluene	91		13.486				ND	
91 1,3,5-Trimethylbenzene	105		13.533				ND	
92 1,2,3-Trichloropropane	110		13.545				ND	
93 trans-1,4-Dichloro-2-buten	53		13.580				ND	
94 Cyclohexanone	55		13.580				ND	
95 4-Chlorotoluene	91		13.640				ND	
81 Pentachloroethane	167		13.776				ND	
96 tert-Butylbenzene	119		13.817				ND	
97 1,2,4-Trimethylbenzene	105		13.888				ND	
98 sec-Butylbenzene	105		13.983				ND	
99 4-Isopropyltoluene	119		14.113				ND	
100 1,3-Dichlorobenzene	146		14.172				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	382351	50.0	
102 1,4-Dichlorobenzene	146		14.255				ND	
119 1,2,3-Trimethylbenzene	105		14.267				ND	
120 Benzyl chloride	126		14.480				ND	
103 n-Butylbenzene	134		14.480				ND	
104 1,2-Dichlorobenzene	146		14.622				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.320				ND	
106 n-Nonyl Aldehyde	57		15.332				ND	
107 1,3,5-Trichlorobenzene	180		15.344				ND	
108 Hexachlorobutadiene	225		15.852				ND	
109 1,2,4-Trichlorobenzene	180		15.888				ND	
110 Naphthalene	128		16.172				ND	
111 1,2,3-Trichlorobenzene	180		16.326				ND	
S 112 Xylenes, Total	106		16.500				ND	
S 113 Trihalomethanes, Total	1		0.000				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5175.D

Injection Date: 16-Jan-2017 20:24:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: 280-92896-C-6

Lab Sample ID: 160-92896-6

Worklist Smp#: 9

Client ID: 6MW2003

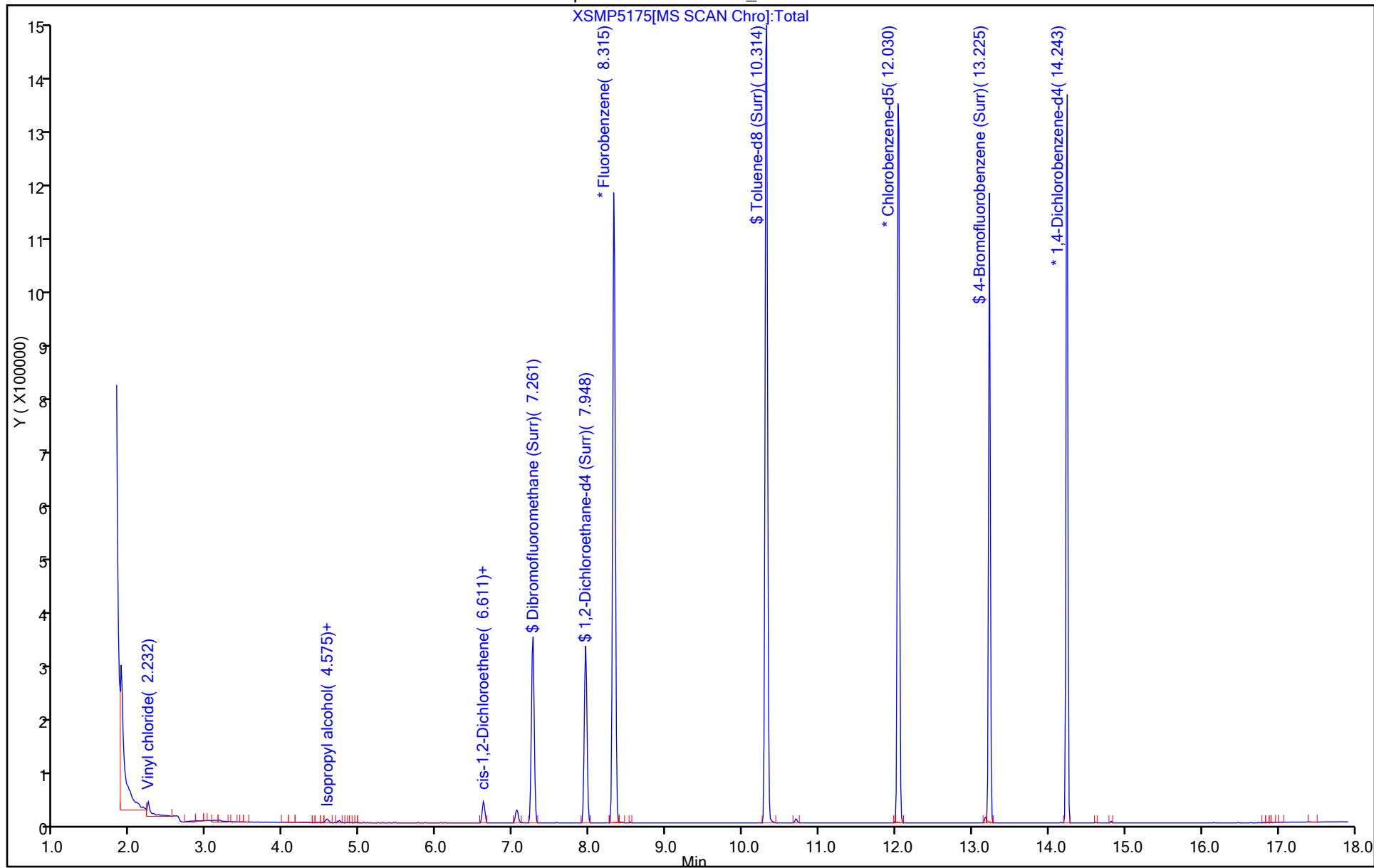
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5175.D
Lims ID: 280-92896-C-6
Client ID: 6MW2003
Sample Type: Client
Inject. Date: 16-Jan-2017 20:24:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009564-009
Misc. Info.: 280-92896-C-6
Operator ID: JDH Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:14:59

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	54.5	108.93
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	55.3	110.62
\$ 62 Toluene-d8 (Surr)	50.0	49.3	98.61
\$ 86 4-Bromofluorobenzene (Surr)	50.0	44.7	89.46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5175.D

Injection Date: 16-Jan-2017 20:24:30

Instrument ID: VMSX

Lims ID: 280-92896-C-6

Lab Sample ID: 160-92896-6

Client ID: 6MW2003

Operator ID: JDH

ALS Bottle#: 8

Worklist Smp#: 9

Purge Vol: 5.000 mL

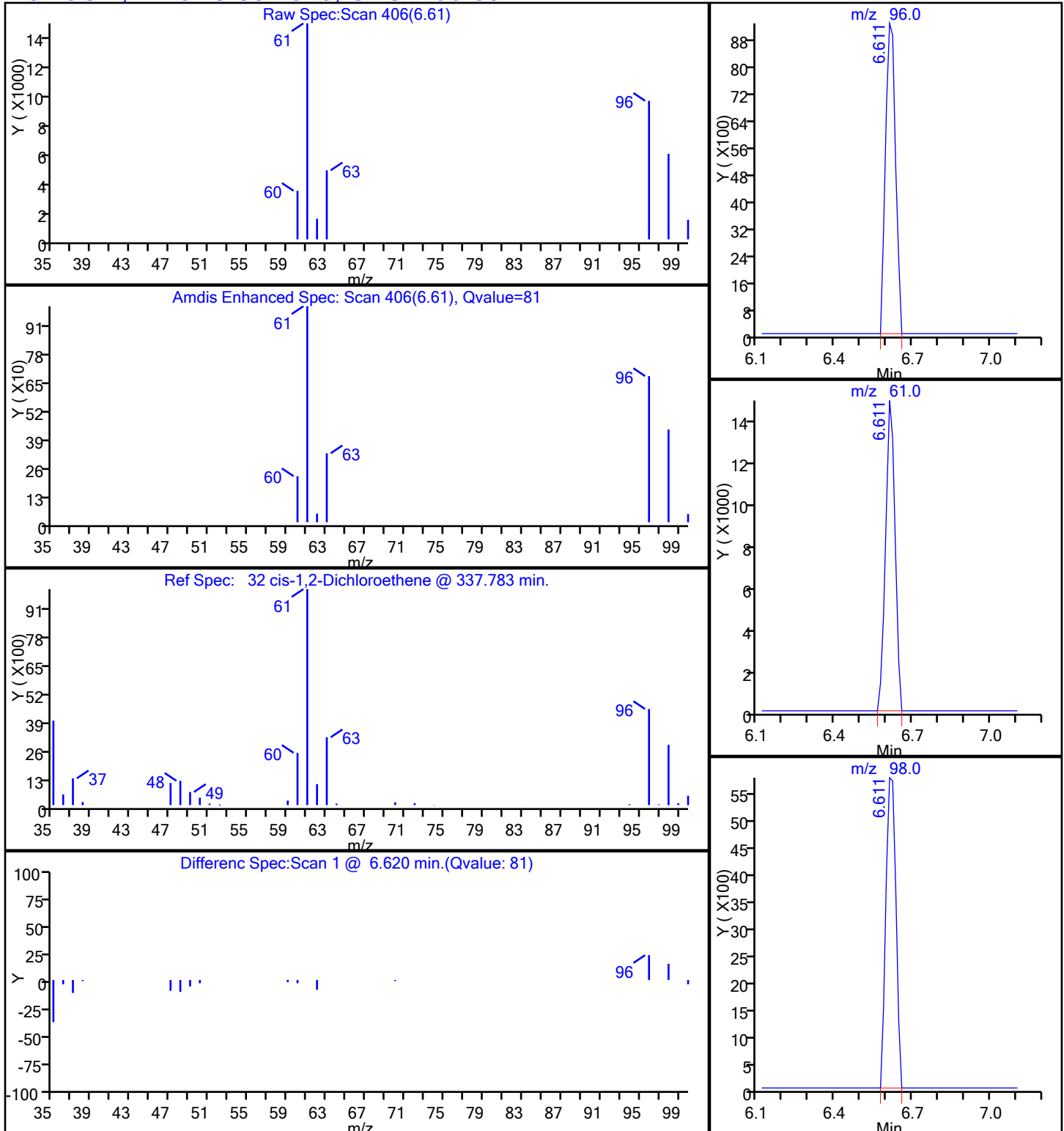
Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5175.D

Injection Date: 16-Jan-2017 20:24:30

Instrument ID: VMSX

Lims ID: 280-92896-C-6

Lab Sample ID: 160-92896-6

Client ID: 6MW2003

Operator ID: JDH

ALS Bottle#: 8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

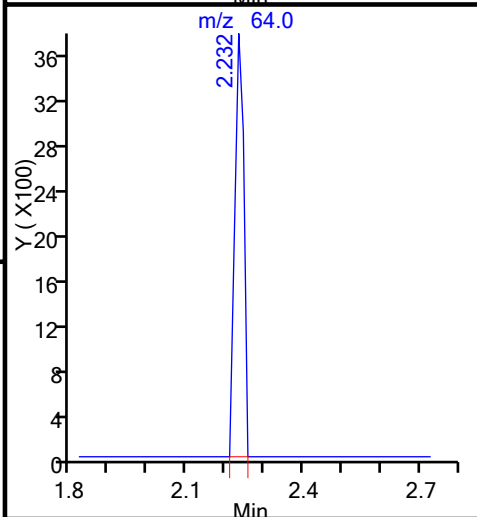
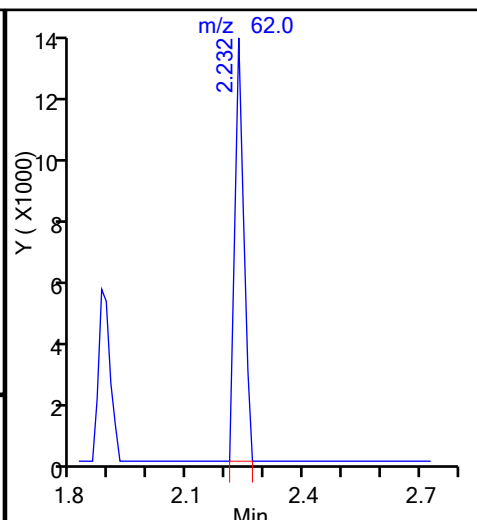
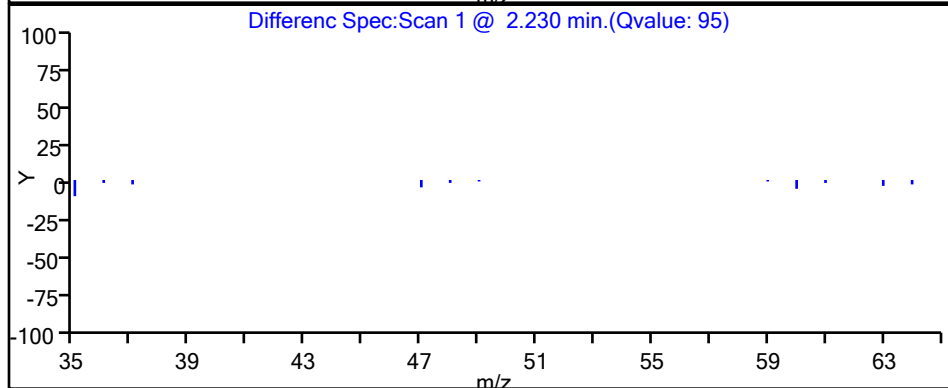
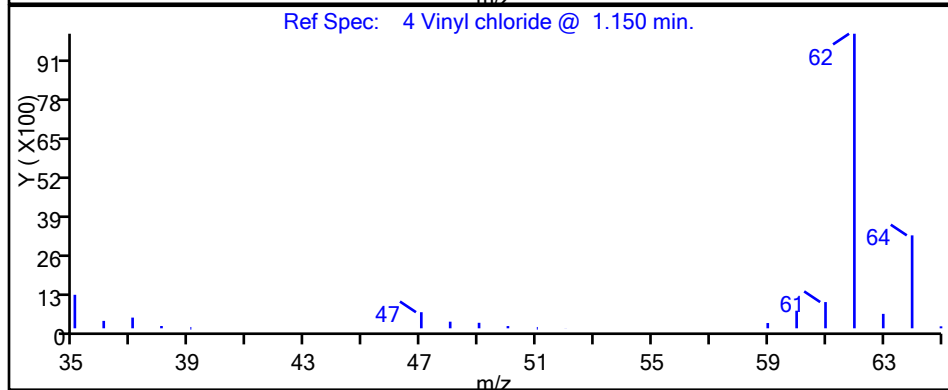
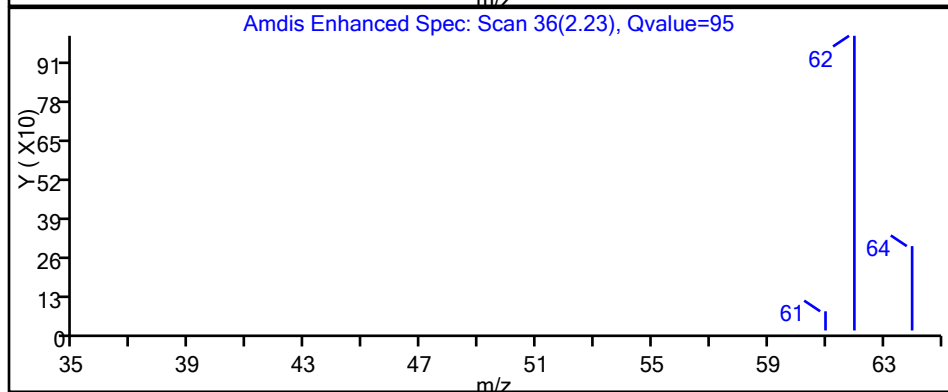
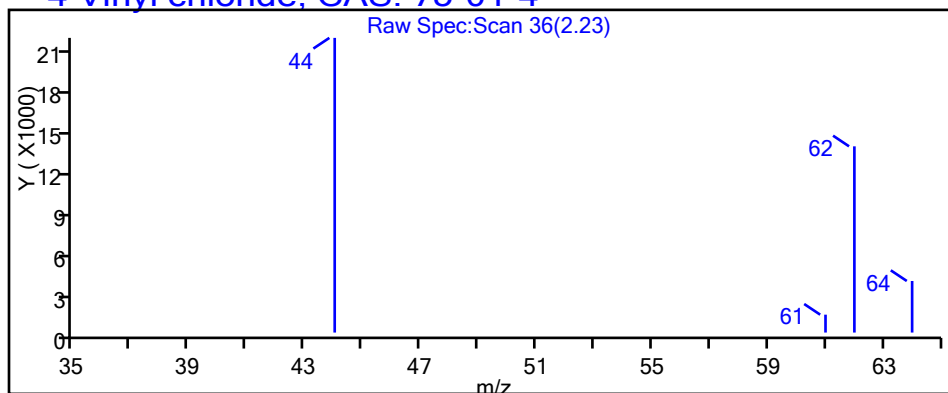
Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: 6MW2003D Lab Sample ID: 280-92896-7

Matrix: Water Lab File ID: XSMP5184.D

Analysis Method: 8260C DOD Date Collected: 01/09/2017 15:05

Sample wt/vol: 5(mL) Date Analyzed: 01/17/2017 00:08

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	3.1	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Client Sample ID: 6MW2003D Lab Sample ID: 280-92896-7
 Matrix: Water Lab File ID: XSMP5184.D
 Analysis Method: 8260C DOD Date Collected: 01/09/2017 15:05
 Sample wt/vol: 5 (mL) Date Analyzed: 01/17/2017 00:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	2.4	J	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		81-118
460-00-4	4-Bromofluorobenzene (Surr)	89		85-114
1868-53-7	Dibromofluoromethane (Surr)	110		80-119
2037-26-5	Toluene-d8 (Surr)	98		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5184.D
 Lims ID: 280-92896-B-7
 Client ID: 6MW2003D
 Sample Type: Client
 Inject. Date: 17-Jan-2017 00:08:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-018
 Misc. Info.: 280-92896-B-6
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:19:59 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:19:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.913				ND	
3 Chloromethane	50		2.126				ND	
4 Vinyl chloride	62	2.233	2.233	0.000	96	22518	2.40	
5 Bromomethane	94		2.623				ND	
6 Chloroethane	64		2.789				ND	
7 Trichlorofluoromethane	101		2.966				ND	
9 1,1-Dichloroethene	96		3.664				ND	
10 Carbon disulfide	76		3.664				ND	
17 Methylene Chloride	84		4.599				ND	
18 Acetone	43		4.717				ND	
19 trans-1,2-Dichloroethene	96		4.859				ND	
22 Methyl tert-butyl ether	73		5.084				ND	
28 1,1-Dichloroethane	63		5.830				ND	
32 cis-1,2-Dichloroethene	96	6.611	6.611	0.000	78	24269	3.11	
33 2,2-Dichloropropane	77		6.765				ND	
35 Chlorobromomethane	128		6.883				ND	
36 Chloroform	83		7.013				ND	
37 Carbon tetrachloride	117		7.167				ND	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.262	0.000	93	282166	55.2	
40 1,1,1-Trichloroethane	97		7.262				ND	
42 1,1-Dichloropropene	75		7.427				ND	
43 2-Butanone (MEK)	43		7.451				ND	
44 Benzene	78		7.759				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	31	299049	55.3	
49 1,2-Dichloroethane	62		8.043				ND	
* 51 Fluorobenzene	96	8.326	8.315	0.011	98	1308355	50.0	
53 Trichloroethene	95		8.528				ND	
55 Dibromomethane	93		9.060				ND	
56 1,2-Dichloropropane	63		9.190				ND	
57 Dichlorobromomethane	83		9.285				ND	
61 cis-1,3-Dichloropropene	75		10.078				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 62 Toluene-d8 (Surr)	98	10.314	10.314	0.000	94	1272979	49.1	
63 Toluene	92		10.374				ND	
65 Tetrachloroethene	164		10.823				ND	
66 4-Methyl-2-pentanone (MIBK)	43		10.859				ND	
67 trans-1,3-Dichloropropene	75		10.882				ND	
68 1,1,2-Trichloroethane	83		11.060				ND	
70 Chlorodibromomethane	129		11.249				ND	
71 1,3-Dichloropropane	76		11.356				ND	
72 Ethylene Dibromide	107		11.498				ND	
74 2-Hexanone	43		11.770				ND	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	89	848142	50.0	
77 Chlorobenzene	112		12.054				ND	
78 Ethylbenzene	91		12.089				ND	
79 1,1,1,2-Tetrachloroethane	131		12.125				ND	
80 m-Xylene & p-Xylene	106		12.243				ND	
82 o-Xylene	106		12.657				ND	
83 Styrene	104		12.717				ND	
84 Bromoform	173		12.728				ND	
85 Isopropylbenzene	105		12.965				ND	
\$ 86 4-Bromofluorobenzene (Surr)	95	13.225	13.225	0.000	85	403159	44.5	
87 Bromobenzene	156		13.320				ND	
88 N-Propylbenzene	91		13.355				ND	
89 1,1,2,2-Tetrachloroethane	83		13.426				ND	
90 2-Chlorotoluene	91		13.486				ND	
91 1,3,5-Trimethylbenzene	105		13.533				ND	
92 1,2,3-Trichloropropane	110		13.545				ND	
95 4-Chlorotoluene	91		13.639				ND	
96 tert-Butylbenzene	119		13.817				ND	
97 1,2,4-Trimethylbenzene	105		13.888				ND	
98 sec-Butylbenzene	105		13.983				ND	
99 4-Isopropyltoluene	119		14.113				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	370110	50.0	
103 n-Butylbenzene	134		14.480				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.320				ND	
110 Naphthalene	128		16.172				ND	
111 1,2,3-Trichlorobenzene	180		16.326				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5184.D

Injection Date: 17-Jan-2017 00:08:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: 280-92896-B-7

Lab Sample ID: 160-92896-7

Worklist Smp#: 18

Client ID: 6MW2003D

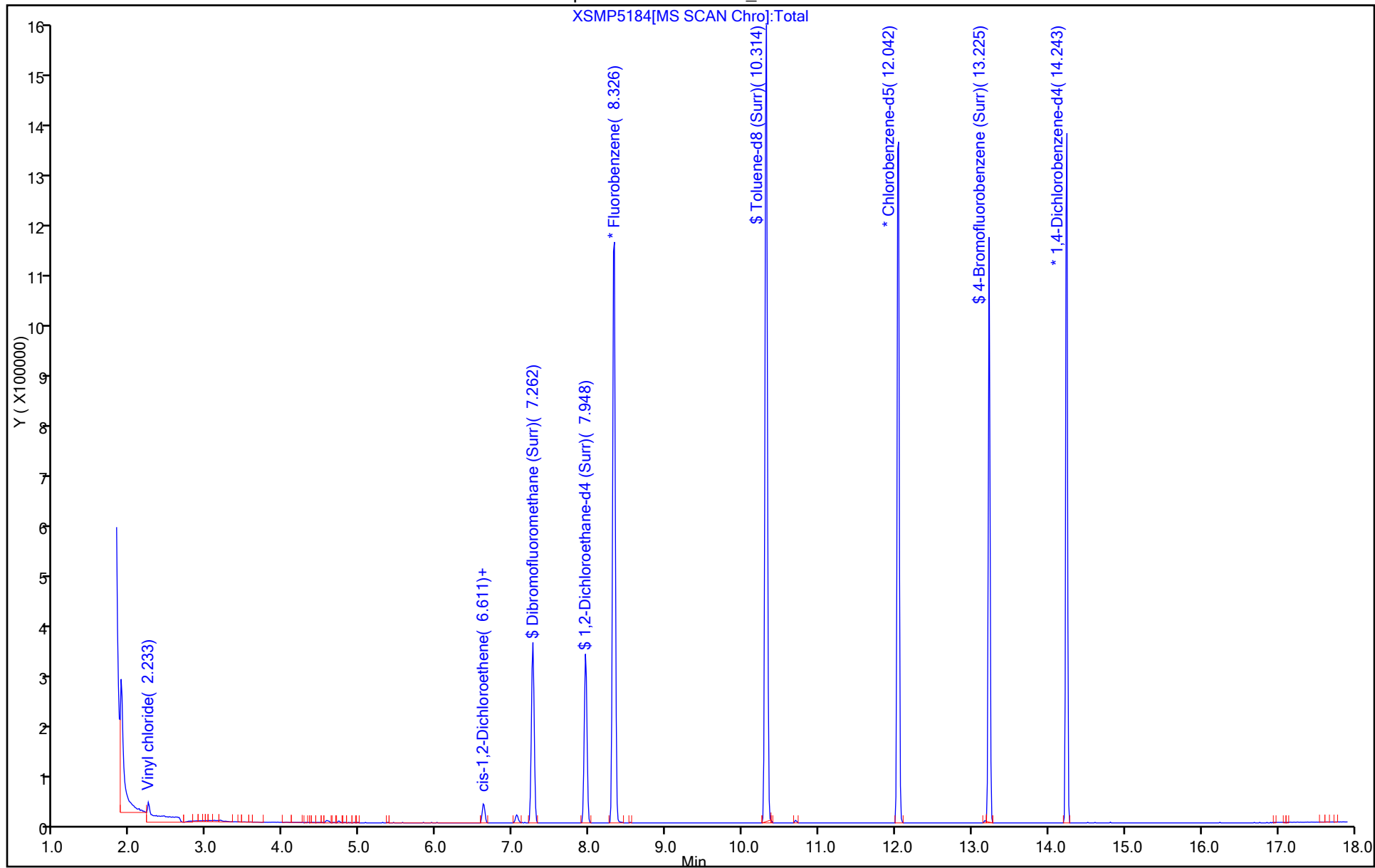
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 17

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5184.D
Lims ID: 280-92896-B-7
Client ID: 6MW2003D
Sample Type: Client
Inject. Date: 17-Jan-2017 00:08:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009564-018
Misc. Info.: 280-92896-B-6
Operator ID: JDH Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 24-Jan-2017 15:19:59 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D
Column 1 : Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:19:01

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	55.2	110.41
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	55.3	110.60
\$ 62 Toluene-d8 (Surr)	50.0	49.1	98.23
\$ 86 4-Bromofluorobenzene (Surr)	50.0	44.5	88.99

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5184.D

Injection Date: 17-Jan-2017 00:08:30

Instrument ID: VMSX

Lims ID: 280-92896-B-7

Lab Sample ID: 160-92896-7

Client ID: 6MW2003D

Operator ID: JDH

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

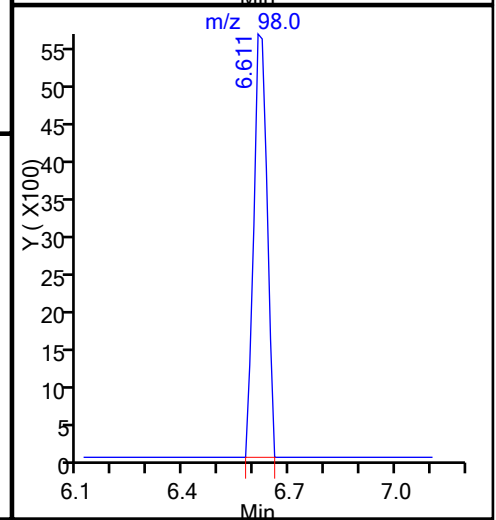
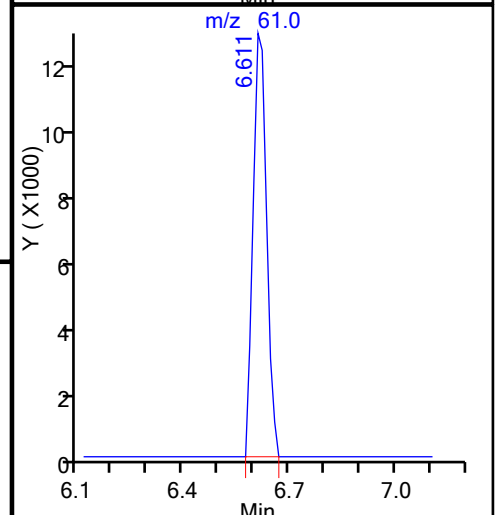
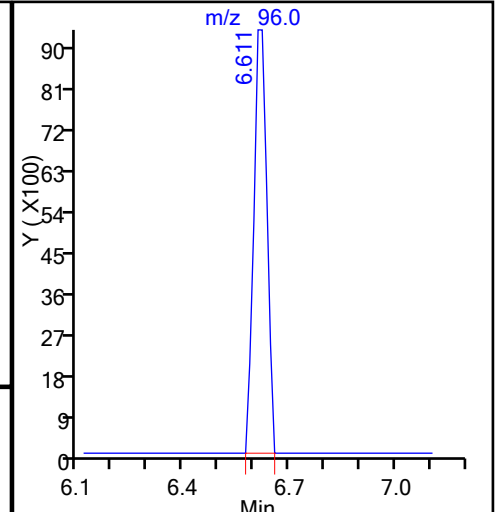
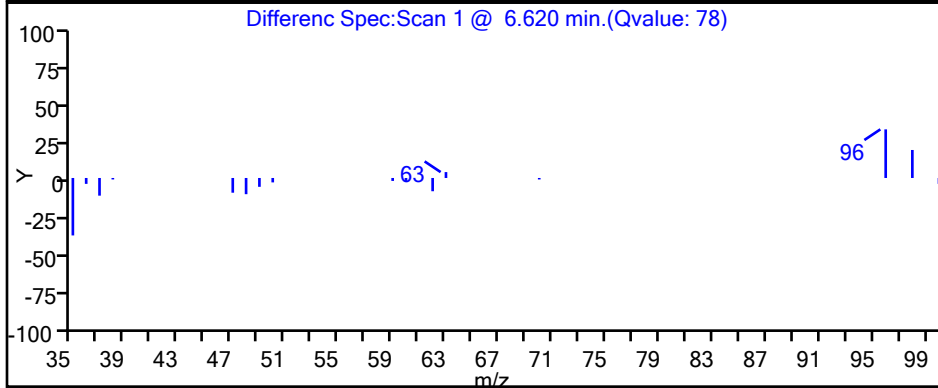
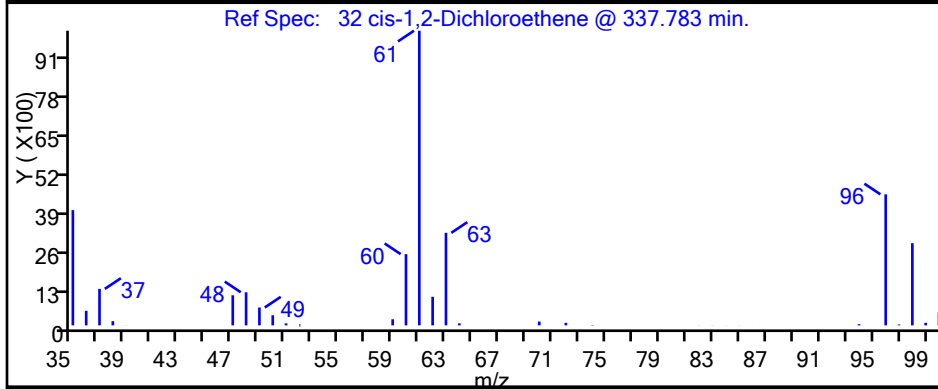
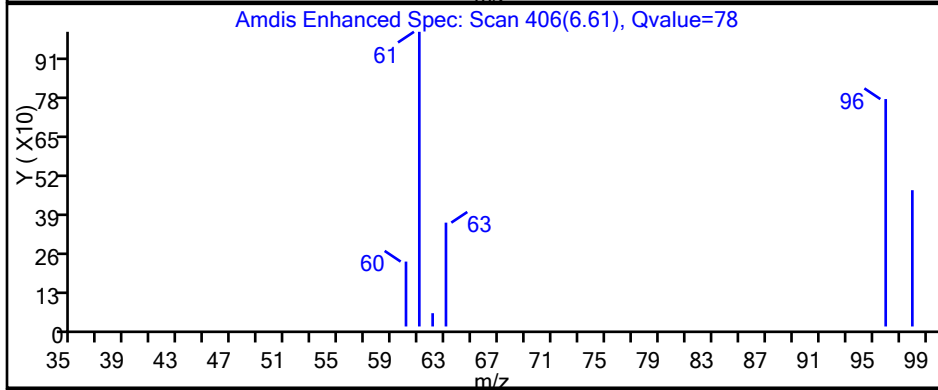
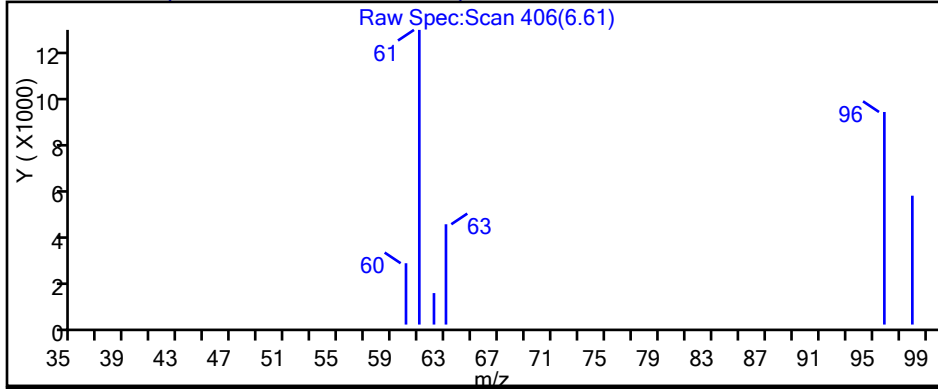
Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector

MS SCAN

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

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5184.D

Injection Date: 17-Jan-2017 00:08:30

Instrument ID: VMSX

Lims ID: 280-92896-B-7

Lab Sample ID: 160-92896-7

Client ID: 6MW2003D

Operator ID: JDH

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

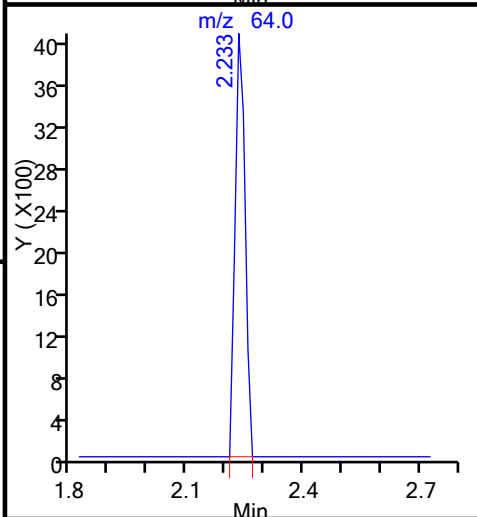
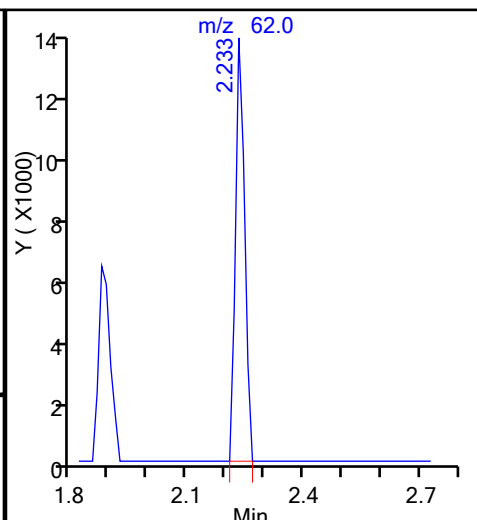
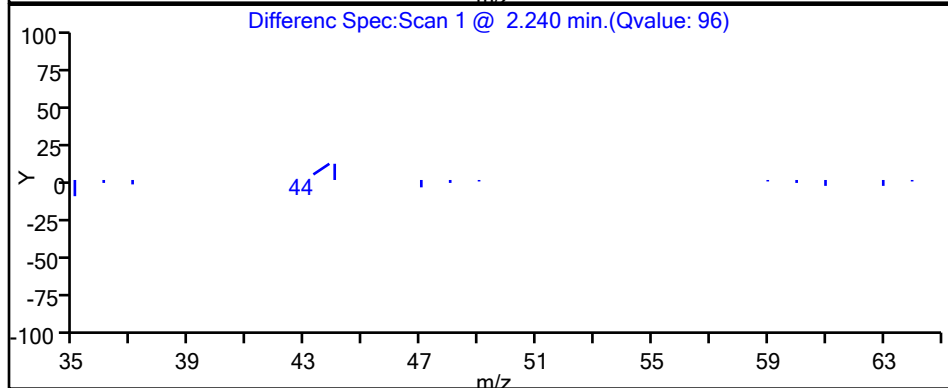
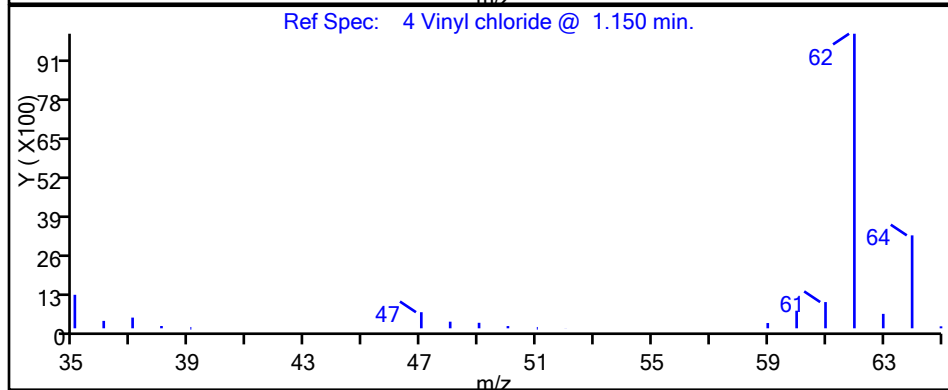
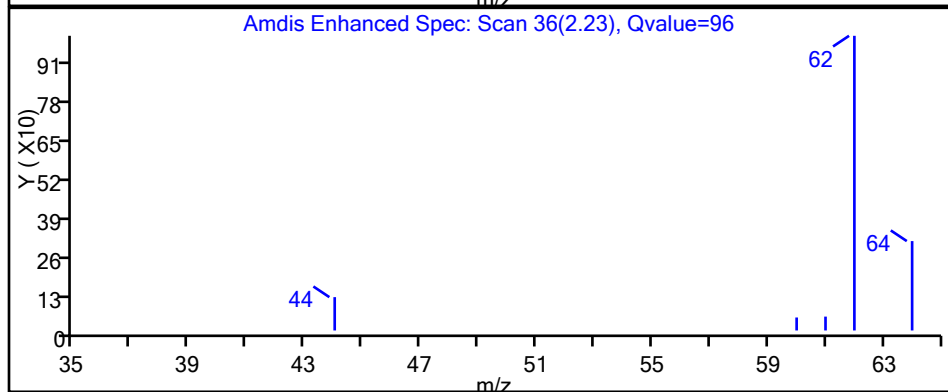
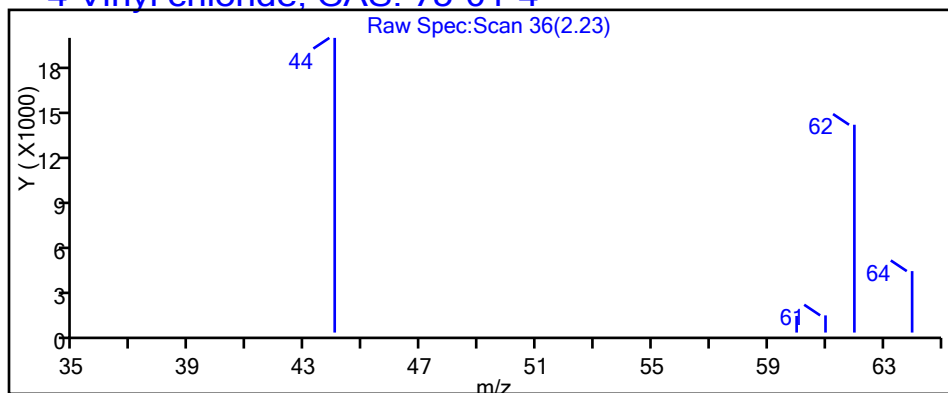
Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: TB04 Lab Sample ID: 280-92896-8

Matrix: Water Lab File ID: XSMP5174.D

Analysis Method: 8260C DOD Date Collected: 01/09/2017 00:00

Sample wt/vol: 5(mL) Date Analyzed: 01/16/2017 19:57

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U Q	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U Q	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U Q	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U Q	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U Q	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U Q	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U Q	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.0	U	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Client Sample ID: TB04 Lab Sample ID: 280-92896-8
 Matrix: Water Lab File ID: XSMP5174.D
 Analysis Method: 8260C DOD Date Collected: 01/09/2017 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 01/16/2017 19:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U Q	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U Q	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U Q	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121	Q	81-118
460-00-4	4-Bromofluorobenzene (Surr)	86		85-114
1868-53-7	Dibromofluoromethane (Surr)	112		80-119
2037-26-5	Toluene-d8 (Surr)	92		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5174.D
 Lims ID: 280-92896-A-8
 Client ID: TB04
 Sample Type: Client
 Inject. Date: 16-Jan-2017 19:57:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-008
 Misc. Info.: 280-92896-A-8
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess Date: 24-Jan-2017 15:14:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.913				ND	
3 Chloromethane	50		2.126				ND	
4 Vinyl chloride	62		2.233				ND	
5 Bromomethane	94		2.623				ND	
6 Chloroethane	64		2.789				ND	
7 Trichlorofluoromethane	101		2.966				ND	
9 1,1-Dichloroethene	96		3.664				ND	
10 Carbon disulfide	76		3.664				ND	
17 Methylene Chloride	84		4.587				ND	
18 Acetone	43		4.706				ND	
19 trans-1,2-Dichloroethene	96		4.860				ND	
22 Methyl tert-butyl ether	73		5.084				ND	
28 1,1-Dichloroethane	63		5.830				ND	
32 cis-1,2-Dichloroethene	96		6.611				ND	
33 2,2-Dichloropropane	77		6.753				ND	
35 Chlorobromomethane	128		6.883				ND	
36 Chloroform	83		7.013				ND	
37 Carbon tetrachloride	117		7.155				ND	
\$ 41 Dibromofluoromethane (Surr	113	7.261	7.250	0.011	93	271349	56.1	
40 1,1,1-Trichloroethane	97		7.262				ND	
42 1,1-Dichloropropene	75		7.427				ND	
43 2-Butanone (MEK)	43		7.451				ND	
44 Benzene	78		7.759				ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	31	309078	60.4	
49 1,2-Dichloroethane	62		8.031				ND	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1238440	50.0	
53 Trichloroethene	95		8.528				ND	
55 Dibromomethane	93		9.048				ND	
56 1,2-Dichloropropane	63		9.190				ND	
57 Dichlorobromomethane	83		9.285				ND	
61 cis-1,3-Dichloropropene	75		10.078				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
\$ 62 Toluene-d8 (Surr)	98	10.314	10.303	0.011	94	1172476	46.1	
63 Toluene	92		10.374				ND	
65 Tetrachloroethene	164		10.823				ND	
66 4-Methyl-2-pentanone (MIBK)	43		10.859				ND	
67 trans-1,3-Dichloropropene	75		10.882				ND	
68 1,1,2-Trichloroethane	83		11.060				ND	
70 Chlorodibromomethane	129		11.249				ND	
71 1,3-Dichloropropane	76		11.356				ND	
72 Ethylene Dibromide	107		11.498				ND	
74 2-Hexanone	43		11.770				ND	
* 76 Chlorobenzene-d5	117	12.042	12.030	0.012	89	831854	50.0	
77 Chlorobenzene	112		12.054				ND	
78 Ethylbenzene	91		12.089				ND	
79 1,1,1,2-Tetrachloroethane	131		12.125				ND	
80 m-Xylene & p-Xylene	106		12.243				ND	
82 o-Xylene	106		12.657				ND	
83 Styrene	104		12.717				ND	
84 Bromoform	173		12.728				ND	
85 Isopropylbenzene	105		12.965				ND	
\$ 86 4-Bromofluorobenzene (Surr)	95	13.225	13.225	0.000	85	402816	42.8	
87 Bromobenzene	156		13.320				ND	
88 N-Propylbenzene	91		13.356				ND	
89 1,1,2,2-Tetrachloroethane	83		13.415				ND	
90 2-Chlorotoluene	91		13.486				ND	
91 1,3,5-Trimethylbenzene	105		13.533				ND	
92 1,2,3-Trichloropropane	110		13.545				ND	
95 4-Chlorotoluene	91		13.640				ND	
96 tert-Butylbenzene	119		13.817				ND	
97 1,2,4-Trimethylbenzene	105		13.888				ND	
98 sec-Butylbenzene	105		13.983				ND	
99 4-Isopropyltoluene	119		14.113				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	384533	50.0	
103 n-Butylbenzene	134		14.480				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.320				ND	
110 Naphthalene	128		16.172				ND	
111 1,2,3-Trichlorobenzene	180		16.326				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5174.D

Injection Date: 16-Jan-2017 19:57:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: 280-92896-A-8

Lab Sample ID: 160-92896-8

Worklist Smp#: 8

Client ID: TB04

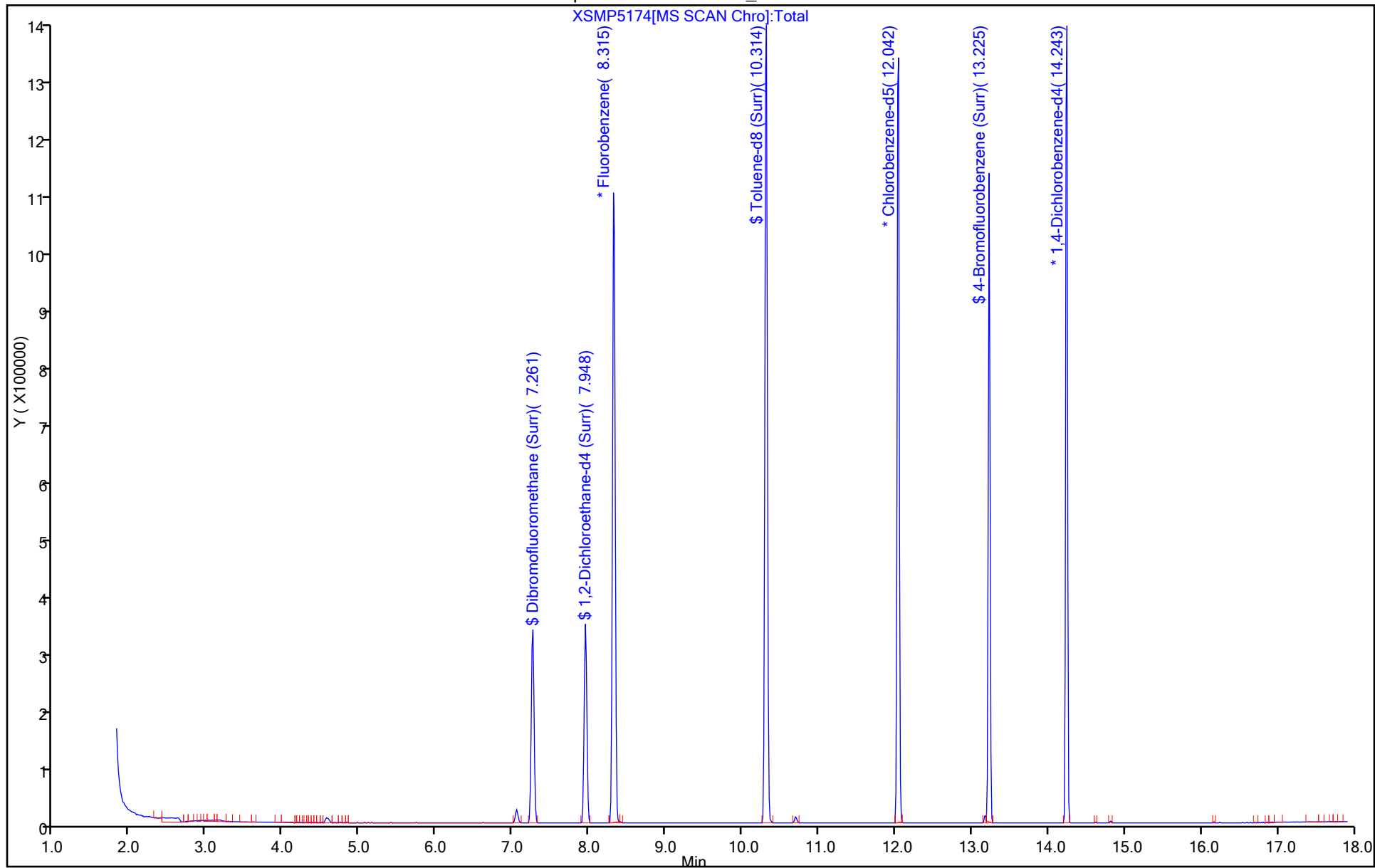
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5174.D
Lims ID: 280-92896-A-8
Client ID: TB04
Sample Type: Client
Inject. Date: 16-Jan-2017 19:57:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009564-008
Misc. Info.: 280-92896-A-8
Operator ID: JDH Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:14:35

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	56.1	112.17
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	60.4	120.77
\$ 62 Toluene-d8 (Surr)	50.0	46.1	92.24
\$ 86 4-Bromofluorobenzene (Surr)	50.0	42.8	85.58

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1 Analy Batch No.: 279985

SDG No.: _____

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 11/18/2016 12:29 Calibration End Date: 11/18/2016 15:20 Calibration ID: 11859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-279985/5	XICL4405.D
Level 2	IC 160-279985/6	XICL4406.D
Level 3	IC 160-279985/7	XICL4407.D
Level 4	IC 160-279985/8	XICL4408.D
Level 5	IC 160-279985/9	XICL4409.D
Level 6	ICIS 160-279985/10	XICL4410.D
Level 7	IC 160-279985/11	XICL4411.D
Level 8	IC 160-279985/12	XICL4412.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								
Dichlorodifluoromethane	++++ 0.3658	++++ 0.3140	0.3634 0.3121	0.3619	0.3380	Ave		0.3425			0.1000	7.3		15.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	++++ 0.1904	++++ 0.1685	0.1802 0.1632	0.1788	0.1733	Ave		0.1757			0.0100	5.5		15.0			
Chloromethane	++++ 0.4649	++++ 0.4474	0.5113 0.4276	0.4714	0.4608	Ave		0.4639			0.1000	6.0		15.0			
Vinyl chloride	0.3686 0.3620	0.3665 0.3427	0.3835 0.3270	0.3706	0.3536	Ave		0.3593			0.1000	4.9		15.0			
Butadiene	++++ 0.3256	++++ 0.2979	0.3758 0.2868	0.3480	0.3322	Ave		0.3277			0.0100	9.9		15.0			
Bromomethane	++++ 0.1088	++++ 0.1088	0.1128 0.1158	0.1064	0.1132	Ave		0.1110			0.1000	3.2		15.0			
Chloroethane	++++ 0.1135	++++ 0.1094	0.1350 0.1287	0.1291	0.1251	Ave		0.1235			0.1000	8.1		15.0			
Trichlorofluoromethane	++++ 0.2979	++++ 0.2970	0.3111 0.3105	0.2951	0.3002	Ave		0.3020			0.1000	2.3		15.0			
Dichlorofluoromethane	++++ 0.3305	++++ 0.3331	0.3702 0.3460	0.3439	0.3306	Ave		0.3424			0.0100	4.4		15.0			
Ethyl ether	++++ 0.1247	++++ 0.1290	0.1377 0.1291	0.1244	0.1269	Ave		0.1286			0.0100	3.8		15.0			
Ethanol	++++ 0.0015	++++ 0.0015	0.0016 0.0015	0.0014	0.0015	Ave		0.0015		*	0.0100	5.2		15.0			
1,1-Dichloroethene	++++ 0.2900	++++ 0.2845	0.3125 0.2771	0.2986	0.2834	Ave		0.2910			0.1000	4.4		15.0			
Carbon disulfide	++++ 1.0167	++++ 0.9724	1.0796 0.9215	1.0331	1.0107	Ave		1.0057			0.1000	5.4		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 0.2196	++++ 0.2168	0.2368 0.2150	0.2294	0.2152	Ave		0.2221			0.1000	4.0		15.0			

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

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1 Analy Batch No.: 279985

SDG No.: _____

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 11/18/2016 12:29 Calibration End Date: 11/18/2016 15:20 Calibration ID: 11859

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								
Iodomethane	++++ 0.3900	++++ 0.3804	0.4168 0.3781	0.3975	0.3825	Ave		0.3909			0.0100	3.7		15.0			
Acrolein	++++ 0.0267	++++ 0.0271	0.0292 0.0271	0.0258	0.0264	Ave		0.0270			0.0010	4.3		15.0			
3-Chloro-1-propene	++++ 0.3558	++++ 0.3532	0.3757 0.3466	0.3544	0.3480	Ave		0.3556			0.0100	2.9		15.0			
Isopropyl alcohol	++++ 0.0077	++++ 0.0082	0.0081 0.0081	0.0070	0.0078	Ave		0.0078		*	0.0100	5.6		15.0			
Methylene Chloride	++++ 0.2468	++++ 0.2459	0.2745 0.2467	0.2518	0.2535	Ave		0.2532			0.1000	4.3		15.0			
Acetone	++++ 0.0346	++++ 0.0347	0.0543 0.0345	0.0428	0.0398	Lin1	0.0988	0.0338		*	0.1000				1.0000		0.9900
trans-1,2-Dichloroethene	++++ 0.2974	0.3113 0.2950	0.3228 0.2911	0.3071	0.2963	Ave		0.3030			0.1000	3.7		15.0			
Methyl acetate	++++ 0.0191	++++ 0.0198	0.0207 0.0198	0.0180	0.0192	Ave		0.0194		*	0.1000	4.7		15.0			
Hexane	++++ 0.1057	++++ 0.1031	0.1196 0.1024	0.1058	0.1059	Ave		0.1071			0.0100	5.9		15.0			
Methyl tert-butyl ether	++++ 0.4839	++++ 0.4972	0.5598 0.5001	0.4993	0.5019	Ave		0.5070			0.1000	5.3		15.0			
2-Methyl-2-propanol	++++ 0.0126	++++ 0.0137	0.0129 0.0137	0.0115	0.0129	Ave		0.0129			0.0100	6.2		15.0			
Acetonitrile	++++ 0.0158	++++ 0.0167	0.0178 0.0165	0.0151	0.0161	Ave		0.0163			0.0010	5.6		15.0			
Isopropyl ether	++++ 0.9347	++++ 0.9499	1.0349 0.9314	0.9416	0.9374	Ave		0.9550			0.0100	4.2		15.0			
2-Chloro-1,3-butadiene	++++ 0.5917	++++ 0.5803	0.6270 0.5694	0.5902	0.5743	Ave		0.5888			0.0100	3.5		15.0			
1,1-Dichloroethane	++++ 0.5518	++++ 0.5463	0.6224 0.5423	0.5720	0.5557	Ave		0.5651			0.2000	5.3		15.0			
Acrylonitrile	++++ 0.0500	++++ 0.0523	0.0562 0.0521	0.0500	0.0509	Ave		0.0519			0.0100	4.5		15.0			
Tert-butyl ethyl ether	++++ 0.7612	++++ 0.7838	0.8376 0.7732	0.7564	0.7724	Ave		0.7808			0.0100	3.8		15.0			
Vinyl acetate	++++ 0.4396	++++ 0.4542	0.4800 0.4375	0.4291	0.4484	Ave		0.4481			0.0100	4.0		15.0			
cis-1,2-Dichloroethene	++++ 0.2892	0.3187 0.2914	0.3163 0.2898	0.2944	0.2890	Ave		0.2984			0.1000	4.4		15.0			
2,2-Dichloropropane	++++ 0.3464	++++ 0.3240	0.3832 0.3072	0.3519	0.3753	Ave		0.3480			0.0100	8.4		15.0			

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

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1 Analy Batch No.: 279985

SDG No.: _____

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 11/18/2016 12:29 Calibration End Date: 11/18/2016 15:20 Calibration ID: 11859

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								
Cyclohexane	+++++ 0.5095	+++++ 0.5017	0.5561 0.4839	0.5321	0.5096	Ave		0.5155			0.1000	4.9		15.0			
Bromochloromethane	+++++ 0.0930	+++++ 0.0919	0.0990 0.0906	0.0981	0.0950	Ave		0.0946			0.0100	3.6		15.0			
Chloroform	+++++ 0.4399	0.4906 0.4462	0.4828 0.4450	0.4525	0.4388	Ave		0.4566			0.2000	4.6		15.0			
Carbon tetrachloride	+++++ 0.3749	+++++ 0.3818	0.3852 0.3805	0.3659	0.3550	Ave		0.3739			0.1000	3.1		15.0			
Tetrahydrofuran	+++++ 0.0137	+++++ 0.0145	0.0113 0.0144	0.0120	0.0133	Ave		0.0132			0.0010	9.7		15.0			
Ethyl acetate	+++++ 0.0194	+++++ 0.0207	0.0179 0.0206	0.0184	0.0190	Ave		0.0193			0.0100	5.8		15.0			
1,1,1-Trichloroethane	+++++ 0.4299	+++++ 0.4214	0.4614 0.4105	0.4424	0.4318	Ave		0.4329			0.1000	4.1		15.0			
1,1-Dichloropropene	+++++ 0.4233	+++++ 0.4245	0.4449 0.4158	0.4257	0.4151	Ave		0.4249			0.0100	2.5		15.0			
2-Butanone (MEK)	+++++ 0.0611	+++++ 0.0606	0.0679 0.0604	0.0556	0.0606	Ave		0.0610		*	0.1000	6.4		15.0			
Isooctane	+++++ 1.5864	+++++ 1.5531	1.7664 1.4784	1.6388	1.5720	Ave		1.5992			0.0100	6.1		15.0			
n-Heptane	+++++ 0.6455	+++++ 0.6359	0.7207 0.5864	0.6812	0.6636	Ave		0.6555			0.0100	6.9		15.0			
Benzene	1.3690 1.0880	1.3271 1.0599	1.2797 0.9930	1.1566	1.1132	Ave		1.1733			0.5000	11.6		15.0			
Propionitrile	+++++ 0.0175	+++++ 0.0186	0.0194 0.0182	0.0173	0.0176	Ave		0.0181			0.0010	4.4		15.0			
Methacrylonitrile	+++++ 0.0803	+++++ 0.0819	0.0952 0.0771	0.0833	0.0840	Ave		0.0836			0.0100	7.4		15.0			
Tert-amyl methyl ether	+++++ 0.5119	+++++ 0.5295	0.5826 0.5191	0.5149	0.5224	Ave		0.5301			0.0100	5.0		15.0			
1,2-Dichloroethane	+++++ 0.2609	+++++ 0.2669	0.2893 0.2689	0.2601	0.2587	Ave		0.2706			0.1000	4.9		15.0			
Isobutyl alcohol	+++++ 0.0035	+++++ 0.0038	0.0033 0.0038	0.0030	0.0033	Ave		0.0034			0.0010	9.3		15.0			
Methylcyclohexane	+++++ 0.5685	+++++ 0.5664	0.5961 0.5372	0.5790	0.5499	Ave		0.5662			0.1000	3.7		15.0			
Trichloroethene	+++++ 0.2775	0.2851 0.2755	0.3041 0.2652	0.2767	0.2750	Ave		0.2799			0.2000	4.4		15.0			
n-Butanol	+++++ 0.0037	+++++ 0.0041	0.0031 0.0042	0.0026	0.0033	Qua	-0.306	0.0040		0 *	0.0100				1.0000		0.9900

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

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1 Analy Batch No.: 279985

SDG No.: _____

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 11/18/2016 12:29 Calibration End Date: 11/18/2016 15:20 Calibration ID: 11859

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								
Dibromomethane	++++ 0.0954	++++ 0.1007	0.1003 0.1009	0.0970	0.0988	Ave		0.0989			0.0100	2.2		15.0			
1,2-Dichloropropane	++++ 0.2841	++++ 0.2900	0.2974 0.2861	0.2816	0.2818	Ave		0.2868			0.1000	2.1		15.0			
Bromodichloromethane	++++ 0.2786	++++ 0.2885	0.2939 0.2896	0.2669	0.2742	Ave		0.2819			0.2000	3.7		15.0			
Ethyl acrylate	++++ 0.2005	++++ 0.2147	0.2132 0.2137	0.1829	0.1993	Ave		0.2041			0.0100	6.1		15.0			
Methyl methacrylate	++++ 0.0966	++++ 0.1037	0.1005 0.1016	0.0925	0.0973	Ave		0.0987			0.0100	4.1		15.0			
1,4-Dioxane	++++ 0.0011	++++ 0.0012	0.0007 0.0012	0.0010	0.0011	Lin1	-0.043	0.0012			0.0010				0.9990		0.9900
2-Chloroethyl vinyl ether	++++ 0.1097	++++ 0.1190	0.1005 0.1195	0.0977	0.1045	Ave		0.1085			0.0100	8.6		15.0			
cis-1,3-Dichloropropene	++++ 0.3722	++++ 0.3841	0.3795 0.3756	0.3566	0.3675	Ave		0.3726			0.2000	2.6		15.0			
Toluene	1.1871 1.0768	1.2193 1.0845	1.1868 1.0953	1.1377	1.0848	Ave		1.1341			0.4000	5.0		15.0			
2-Nitropropane	++++ 0.0504	++++ 0.0609	0.0423 0.0685	0.0415	0.0450	Qua	-0.281	0.0526	0.0000417		0.0100				1.0000		0.9900
Tetrachloroethene	++++ 0.3596	0.3824 0.3610	0.3689 0.3566	0.3653	0.3493	Ave		0.3633			0.2000	2.9		15.0			
4-Methyl-2-pentanone (MIBK)	++++ 0.2124	++++ 0.2161	0.2219 0.2302	0.1926	0.1980	Ave		0.2119			0.1000	6.7		15.0			
trans-1,3-Dichloropropene	++++ 0.4508	++++ 0.4717	0.4537 0.5039	0.4257	0.4284	Ave		0.4557			0.1000	6.4		15.0			
1,1,2-Trichloroethane	++++ 0.1972	++++ 0.2061	0.2117 0.2177	0.1945	0.1928	Ave		0.2033			0.1000	5.0		15.0			
Ethyl methacrylate	++++ 0.3162	++++ 0.3416	0.3211 0.3645	0.2909	0.3023	Ave		0.3227			0.0100	8.3		15.0			
Dibromochloromethane	++++ 0.2518	++++ 0.2723	0.2417 0.2959	0.2258	0.2347	Ave		0.2537			0.1000	10.3		15.0			
1,3-Dichloropropane	++++ 0.4436	++++ 0.4579	0.4746 0.4879	0.4384	0.4337	Ave		0.4560			0.0100	4.7		15.0			
1,2-Dibromoethane	++++ 0.2124	++++ 0.2254	0.2230 0.2408	0.2007	0.2019	Ave		0.2174			0.1000	7.1		15.0			
n-Butyl acetate	++++ 0.3888	++++ 0.4252	0.3927 0.4551	0.3567	0.3660	Ave		0.3974			0.0100	9.3		15.0			
2-Hexanone	++++ 0.1436	++++ 0.1532	0.1456 0.1652	0.1304	0.1424	Ave		0.1467			0.1000	8.0		15.0			

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

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1 Analy Batch No.: 279985
SDG No.: _____
Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y
Calibration Start Date: 11/18/2016 12:29 Calibration End Date: 11/18/2016 15:20 Calibration ID: 11859

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-Chlorohexane	++++ 0.6621	++++ 0.6563	0.6941 0.6092	0.6953	0.6585	Ave		0.6626			0.0100	4.8		15.0			
Chlorobenzene	++++ 0.9812	++++ 0.9674	1.0942 0.9244	1.0254	1.0031	Ave		0.9993			0.5000	5.8		15.0			
Ethylbenzene	2.2349 2.1112	2.2527 2.0809	2.2194 1.9358	2.1724	2.0896	Ave		2.1371			0.1000	4.9		15.0			
1,1,1,2-Tetrachloroethane	++++ 0.3069	++++ 0.3235	0.3265 0.3343	0.3071	0.2973	Ave		0.3159			0.0100	4.5		15.0			
m,p-Xylenes	0.8821 0.7911	0.8406 0.7936	0.7993 0.7739	0.7897	0.7639	Ave		0.8043			0.1000	4.8		15.0			
o-Xylene	0.7349 0.7336	0.7424 0.7377	0.7645 0.7251	0.7502	0.7223	Ave		0.7389			0.3000	1.8		15.0			
Styrene	++++ 1.0887	++++ 1.0985	1.1166 1.0760	1.1136	1.0897	Ave		1.0972			0.3000	1.4		15.0			
Bromoform	++++ 0.2716	++++ 0.2823	0.2436 0.3090	0.2324	0.2462	Ave		0.2642			0.1000	10.9		15.0			
Isopropylbenzene	++++ 4.9484	++++ 4.6104	5.1304 4.2413	5.2369	5.0169	Ave		4.8640			0.1000	7.7		15.0			
Bromobenzene	++++ 0.8986	++++ 0.8803	0.9321 0.8907	0.9012	0.9087	Ave		0.9019			0.0100	2.0		15.0			
N-Propylbenzene	++++ 5.6134	++++ 5.2164	5.6868 4.6395	5.9127	5.7752	Ave		5.4740			0.0100	8.6		15.0			
1,1,2,2-Tetrachloroethane	++++ 0.5568	++++ 0.5693	0.5792 0.6196	0.5280	0.5636	Ave		0.5694			0.3000	5.3		15.0			
2-Chlorotoluene	++++ 3.2057	++++ 3.1323	3.3663 3.0201	3.3527	3.2357	Ave		3.2188			0.0100	4.1		15.0			
1,3,5-Trimethylbenzene	++++ 3.7778	++++ 3.6309	3.8461 3.3492	3.9434	3.8307	Ave		3.7297			0.0100	5.7		15.0			
1,2,3-Trichloropropane	++++ 0.1648	++++ 0.1617	0.1712 0.1673	0.1637	0.1600	Ave		0.1648			0.0100	2.4		15.0			
trans-1,4-Dichloro-2-butene	++++ 0.1868	++++ 0.1986	0.1826 0.2268	0.1656	0.1718	Ave		0.1887			0.0100	11.6		15.0			
Cyclohexanone	++++ 0.0157	++++ 0.0172	0.0162 0.0189	0.0146	0.0141	Ave		0.0161			0.0010	10.9		15.0			
4-Chlorotoluene	++++ 3.1839	++++ 3.1127	3.2899 2.9957	3.2672	3.2050	Ave		3.1758			0.0100	3.4		15.0			
tert-Butylbenzene	++++ 3.3566	++++ 3.2218	3.3759 3.0124	3.4758	3.3943	Ave		3.3061			0.0100	5.0		15.0			
1,2,4-Trimethylbenzene	++++ 3.6829	++++ 3.5604	3.7462 3.3416	3.8577	3.7341	Ave		3.6538			0.0100	5.0		15.0			

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

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1 Analy Batch No.: 279985

SDG No.: _____

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 11/18/2016 12:29 Calibration End Date: 11/18/2016 15:20 Calibration ID: 11859

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								
sec-Butylbenzene	++++ 5.1229	++++ 4.8486	5.1522 4.2848	5.4185	5.2115	Ave		5.0064			0.0100	8.0		15.0			
p-Isopropyltoluene	++++ 4.1326	++++ 3.9462	3.9961 3.5210	4.2770	4.1308	Ave		4.0006			0.0100	6.6		15.0			
1,3-Dichlorobenzene	++++ 1.7360	++++ 1.7102	1.8596 1.6978	1.8353	1.7661	Ave		1.7675			0.6000	3.8		15.0			
1,4-Dichlorobenzene	++++ 1.6381	++++ 1.6081	1.7511 1.5659	1.6733	1.6333	Ave		1.6450			0.5000	3.8		15.0			
1,2,3-Trimethylbenzene	++++ 3.3672	++++ 3.2319	3.4248 3.0975	3.4376	3.3513	Ave		3.3184			0.0100	3.9		15.0			
Benzyl chloride	++++ 0.2074	++++ 0.2164	0.1821 0.2249	0.1693	0.1945	Ave		0.1991			0.0100	10.6		15.0			
n-Butylbenzene	++++ 1.0534	++++ 1.0139	0.9364 0.9230	1.0343	1.0382	Ave		0.9999			0.0100	5.6		15.0			
1,2-Dichlorobenzene	++++ 1.4964	++++ 1.4776	1.5231 1.4821	1.5401	1.4942	Ave		1.5023			0.4000	1.6		15.0			
1,2-Dibromo-3-Chloropropane	++++ 0.0843	++++ 0.0928	0.0827 0.1028	0.0733	0.0732	Ave		0.0848			0.0500	13.5		15.0			
1,3,5-Trichlorobenzene	++++ 1.2908	++++ 1.2280	1.2453 1.1658	1.3125	1.2783	Ave		1.2534			0.0100	4.2		15.0			
n-Nonyl Aldehyde	++++ 0.4008	++++ 0.4411	0.3290 0.5063	0.3188	0.3456	Lin1	-1.439	0.4826			0.0100				0.9910		0.9900
Hexachlorobutadiene	++++ 0.6774	++++ 0.6587	0.5753 0.5988	0.6768	0.6492	Ave		0.6394			0.0100	6.7		15.0			
1,2,4-Trichlorobenzene	++++ 1.0379	++++ 1.0131	1.0456 1.0122	1.0362	1.0234	Ave		1.0281			0.2000	1.4		15.0			
Naphthalene	++++ 1.7218	++++ 1.8175	1.7950 1.8749	1.6507	1.6741	Ave		1.7557			0.0100	5.0		15.0			
1,2,3-Trichlorobenzene	++++ 0.8280	++++ 0.8270	0.8299 0.8357	0.8270	0.8253	Ave		0.8288			0.0100	0.4		15.0			
Dibromofluoromethane (Surr)	++++ 0.1949	++++ 0.1882	0.2001 0.1930	0.1996	0.1963	Ave		0.1953			0.0100	2.3		15.0			
1,2-Dichloroethane-d4 (Surr)	++++ 0.2034	++++ 0.2010	0.2195 0.2081	0.2049	0.2031	Ave		0.2067			0.0100	3.2		15.0			
Toluene-d8 (Surr)	++++ 1.5314	++++ 1.4768	1.5470 1.5234	1.5892	1.5003	Ave		1.5280			0.0100	2.5		15.0			
4-Bromofluorobenzene (Surr)	++++ 1.2285	++++ 1.1848	1.2136 1.2980	1.2146	1.2051	Ave		1.2241			0.0100	3.2		15.0			

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

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1 Analy Batch No.: 279985

SDG No.: _____

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 11/18/2016 12:29 Calibration End Date: 11/18/2016 15:20 Calibration ID: 11859

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-279985/5	XICL4405.D
Level 2	IC 160-279985/6	XICL4406.D
Level 3	IC 160-279985/7	XICL4407.D
Level 4	IC 160-279985/8	XICL4408.D
Level 5	IC 160-279985/9	XICL4409.D
Level 6	ICIS 160-279985/10	XICL4410.D
Level 7	IC 160-279985/11	XICL4411.D
Level 8	IC 160-279985/12	XICL4412.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	++++ 564704	++++ 981880	55355 1853083	117023	178058	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	FB	Ave	++++ 293977	++++ 526787	27452 968668	57820	91306	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Chloromethane	FB	Ave	++++ 717761	++++ 1398835	77885 2538549	152444	242722	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Vinyl chloride	FB	Ave	13016 558786	31065 1071577	58422 1941195	119827	186260	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Butadiene	FB	Ave	++++ 502711	++++ 931378	57247 1702666	112534	174969	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Bromomethane	FB	Ave	++++ 168009	++++ 340195	17181 687335	34395	59611	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Chloroethane	FB	Ave	++++ 175179	++++ 341956	20565 764197	41762	65868	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	++++ 459833	++++ 928807	47393 1843143	95432	158145	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	++++ 510217	++++ 1041477	56390 2053790	111195	174160	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Ethyl ether	FB	Ave	++++ 192549	++++ 403374	20976 766121	40226	66851	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Ethanol	FB	Ave	++++ 92454	++++ 191933	9917 353143	18001	30899	++++ 2000	++++ 4000	200 8000	400	800
1,1-Dichloroethene	FB	Ave	++++ 447703	++++ 889477	47601 1645113	96545	149267	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Carbon disulfide	FB	Ave	++++ 1569630	++++ 3040736	164462 5470502	334068	532373	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 339030	++++ 677822	36076 1276207	74197	113345	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Iodomethane	FB	Ave	++++ 602031	++++ 1189544	63500 2244880	128539	201480	++++ 50.0	++++ 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1 Analy Batch No.: 279985

SDG No.: _____

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 11/18/2016 12:29 Calibration End Date: 11/18/2016 15:20 Calibration ID: 11859

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Acrolein	FB	Ave	+++++ 206388	+++++ 423000	22230 803856	41648	69466	+++++ 250	+++++ 500	25.0 1000	50.0	100
3-Chloro-1-propene	FB	Ave	+++++ 549260	+++++ 1104443	57232 2057717	114618	183282	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isopropyl alcohol	FB	Ave	+++++ 119236	+++++ 256285	12294 479597	22627	40912	+++++ 500	+++++ 1000	50.0 2000	100	200
Methylene Chloride	FB	Ave	+++++ 381053	+++++ 768917	41813 1464387	81433	133535	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Acetone	FB	Lin1	+++++ 53395	+++++ 108504	8278 205058	13844	20977	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 459124	+++++ 922427	26385 1728063	99306	156055	+++++ 50.0	+++++ 2.50 100	5.00 200	10.0	20.0
Methyl acetate	FB	Ave	+++++ 147293	+++++ 308884	15768 589193	29044	50627	+++++ 250	+++++ 500	25.0 1000	50.0	100
Hexane	FB	Ave	+++++ 163228	+++++ 322494	18225 608145	34225	55771	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Methyl tert-butyl ether	FB	Ave	+++++ 747035	+++++ 1554596	85274 2969016	161470	264373	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Methyl-2-propanol	FB	Ave	+++++ 195010	+++++ 428628	19611 812070	37282	68186	+++++ 500	+++++ 1000	50.0 2000	100	200
Acetonitrile	FB	Ave	+++++ 244506	+++++ 523185	27103 976934	48803	84802	+++++ 500	+++++ 1000	50.0 2000	100	200
Isopropyl ether	FB	Ave	+++++ 1442988	+++++ 2970284	157642 5529121	304497	493768	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 913490	+++++ 1814584	95506 3380049	190851	302487	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	+++++ 851807	+++++ 1708122	94819 3219100	184979	292702	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Acrylonitrile	FB	Ave	+++++ 772335	+++++ 1634083	85621 3093437	161733	268205	+++++ 500	+++++ 1000	50.0 2000	100	200
Tert-butyl ethyl ether	FB	Ave	+++++ 1175090	+++++ 2450745	127598 4589990	244599	406848	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Vinyl acetate	FB	Ave	+++++ 678609	+++++ 1420216	73125 2597275	138747	236162	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 446434	+++++ 911292	27009 1720161	95205	152235	+++++ 50.0	+++++ 2.50 100	5.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 534835	+++++ 1013181	58378 1823995	113809	197694	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Cyclohexane	FB	Ave	+++++ 786572	+++++ 1568783	84715 2872707	172054	268412	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromochloromethane	FB	Ave	+++++ 143572	+++++ 287243	15074 537632	31736	50059	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1 Analy Batch No.: 279985

SDG No.: _____

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 11/18/2016 12:29 Calibration End Date: 11/18/2016 15:20 Calibration ID: 11859

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Chloroform	FB	Ave	++++ 679131	41585 1395272	73554 2641981	146313	231138	++++ 50.0	2.50 100	5.00 200	10.0	20.0
Carbon tetrachloride	FB	Ave	++++ 578781	++++ 1193854	58682 2258788	118332	186986	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Tetrahydrofuran	FB	Ave	++++ 42288	++++ 90712	3457 170741	7759	13971	++++ 100	++++ 200	10.0 400	20.0	40.0
Ethyl acetate	FB	Ave	++++ 59963	++++ 129170	5458 244075	11919	20010	++++ 100	++++ 200	10.0 400	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	++++ 663717	++++ 1317638	70279 2436757	143045	227442	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	++++ 653549	++++ 1327392	67778 2468382	137670	218664	++++ 50.0	++++ 100	5.00 200	10.0	20.0
2-Butanone (MEK)	FB	Ave	++++ 94373	++++ 189338	10339 358546	17991	31915	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Isooctane	FB	Ave	++++ 2449080	++++ 4856413	269082 8776407	529947	828034	++++ 50.0	++++ 100	5.00 200	10.0	20.0
n-Heptane	FB	Ave	++++ 996507	++++ 1988533	109782 3480909	220270	349542	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Benzene	FB	Ave	48340 1679709	112482 3314071	194947 5895011	374002	586334	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Propionitrile	FB	Ave	++++ 270186	++++ 580087	29553 1082256	55809	92768	++++ 500	++++ 1000	50.0 2000	100	200
Methacrylonitrile	FB	Ave	++++ 1239789	++++ 2560840	144948 4579898	269380	442564	++++ 500	++++ 1000	50.0 2000	100	200
Tert-amyl methyl ether	FB	Ave	++++ 790312	++++ 1655858	88748 3081547	166508	275178	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2-Dichloroethane	FB	Ave	++++ 402723	24517 834506	44045 1596323	84125	136272	++++ 50.0	2.50 100	5.00 200	10.0	20.0
Isobutyl alcohol	FB	Ave	++++ 134424	++++ 296292	12388 559708	24102	42938	++++ 1250	++++ 2500	125 5000	250	500
Methylcyclohexane	FB	Ave	++++ 877705	++++ 1771074	90801 3188827	187219	289651	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Trichloroethene	FB	Ave	++++ 428332	24168 861339	46330 1574621	89466	144831	++++ 50.0	2.50 100	5.00 200	10.0	20.0
n-Butanol	FB	Qua	++++ 141767	++++ 319113	11894 617722	21294	43239	++++ 1250	++++ 2500	125 5000	250	500
Dibromomethane	FB	Ave	++++ 147325	++++ 314961	15273 598737	31383	52047	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	++++ 438607	++++ 906678	45304 1698240	91060	148445	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Bromodichloromethane	FB	Ave	++++ 430136	++++ 902077	44764 1719309	86318	144415	++++ 50.0	++++ 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1 Analy Batch No.: 279985

SDG No.: _____

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 11/18/2016 12:29 Calibration End Date: 11/18/2016 15:20 Calibration ID: 11859

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Ethyl acrylate	FB	Ave	++++ 309514	++++ 671346	32483 1268693	59156	104986	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Methyl methacrylate	FB	Ave	++++ 298280	++++ 648824	30624 1206703	59815	102464	++++ 100	++++ 200	10.0 400	20.0	40.0
1,4-Dioxane	FB	Lin1	++++ 34226	++++ 75234	2215 138391	6315	11755	++++ 1000	++++ 2000	100 4000	200	400
2-Chloroethyl vinyl ether	FB	Ave	++++ 169300	++++ 372220	15311 709690	31584	55031	++++ 50.0	++++ 100	5.00 200	10.0	20.0
cis-1,3-Dichloropropene	FB	Ave	++++ 574573	++++ 1200903	57818 2229952	115306	193588	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Toluene	CBNZ d5	Ave	26289 1040784	64684 2099168	115136 3730112	232545	370031	1.00 50.0	2.50 100	5.00 200	10.0	20.0
2-Nitropropane	CBNZ d5	Qua	++++ 97495	++++ 235801	8208 466460	16960	30711	++++ 100	++++ 200	10.0 400	20.0	40.0
Tetrachloroethene	CBNZ d5	Ave	++++ 347586	++++ 698698	20285 1214596	74658	119132	++++ 50.0	++++ 100	5.00 200	10.0	20.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	++++ 205278	++++ 418218	21530 784037	39360	67527	++++ 50.0	++++ 100	5.00 200	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	++++ 435696	++++ 912960	44018 1715950	87013	146111	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 190589	++++ 398918	20540 741448	39753	65774	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Ethyl methacrylate	CBNZ d5	Ave	++++ 305637	++++ 661097	31146 1241264	59465	103096	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Dibromochloromethane	CBNZ d5	Ave	++++ 243340	++++ 527136	23450 1007694	46155	80070	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	++++ 428767	++++ 886366	46039 1661697	89613	147933	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2-Dibromoethane	CBNZ d5	Ave	++++ 205298	++++ 436275	21629 820174	41027	68859	++++ 50.0	++++ 100	5.00 200	10.0	20.0
n-Butyl acetate	CBNZ d5	Ave	++++ 375785	++++ 823032	38094 1550045	72903	124850	++++ 50.0	++++ 100	5.00 200	10.0	20.0
2-Hexanone	CBNZ d5	Ave	++++ 138784	++++ 296556	14123 562654	26653	48560	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1-Chlorohexane	CBNZ d5	Ave	++++ 639979	++++ 1270324	67334 2074705	142104	224600	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Chlorobenzene	CBNZ d5	Ave	++++ 948388	++++ 1872458	106154 3147971	209573	342163	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	49491 2040608	119502 4027802	215311 6592572	444020	712746	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 296671	++++ 626108	31679 1138336	62771	101412	++++ 50.0	++++ 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1 Analy Batch No.: 279985

SDG No.: _____

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 11/18/2016 12:29 Calibration End Date: 11/18/2016 15:20 Calibration ID: 11859

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
m,p-Xylenes	CBNZ d5	Ave	19535 764627	44594 1536128	77542 2635519	161413	260575	1.00 50.0	2.50 100	5.00 200	10.0	20.0
o-Xylene	CBNZ d5	Ave	16274 709131	39381 1427819	74168 2469465	153343	246387	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Styrene	CBNZ d5	Ave	++++ 1052299	++++ 2126212	108323 3664441	227607	371688	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Bromoform	DCBd 4	Ave	++++ 105661	++++ 229368	9715 432435	19115	33894	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Isopropylbenzene	DCBd 4	Ave	++++ 1924775	++++ 3746390	204619 5935360	430744	690775	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Bromobenzene	DCBd 4	Ave	++++ 349537	++++ 715332	37176 1246411	74128	125115	++++ 50.0	++++ 100	5.00 200	10.0	20.0
N-Propylbenzene	DCBd 4	Ave	++++ 2183451	++++ 4238836	226809 6492567	486331	795193	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	++++ 216581	++++ 462574	23101 867093	43428	77607	++++ 50.0	++++ 100	5.00 200	10.0	20.0
2-Chlorotoluene	DCBd 4	Ave	++++ 1246905	++++ 2545315	134260 4226418	275762	445520	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	++++ 1469451	++++ 2950415	153396 4686916	324349	527450	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	++++ 64093	++++ 131424	6828 234175	13465	22033	++++ 50.0	++++ 100	5.00 200	10.0	20.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	++++ 72661	++++ 161412	7283 317428	13622	23661	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Cyclohexanone	DCBd 4	Ave	++++ 61149	++++ 139490	6477 265064	11994	19460	++++ 500	++++ 1000	50.0 2000	100	200
4-Chlorotoluene	DCBd 4	Ave	++++ 1238463	++++ 2529368	131213 4192262	268735	441301	++++ 50.0	++++ 100	5.00 200	10.0	20.0
tert-Butylbenzene	DCBd 4	Ave	++++ 1305632	++++ 2618009	134643 4215682	285886	467366	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	++++ 1432551	++++ 2893200	149412 4676295	317302	514143	++++ 50.0	++++ 100	5.00 200	10.0	20.0
sec-Butylbenzene	DCBd 4	Ave	++++ 1992656	++++ 3939956	205489 5996242	445680	717570	++++ 50.0	++++ 100	5.00 200	10.0	20.0
p-Isopropyltoluene	DCBd 4	Ave	++++ 1607481	++++ 3206633	159378 4927357	351788	568776	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	++++ 675272	++++ 1389719	74166 2375879	150953	243171	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	++++ 637185	++++ 1306707	69840 2191325	137629	224885	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	++++ 1309748	++++ 2626225	136593 4334649	282747	461435	++++ 50.0	++++ 100	5.00 200	10.0	20.0

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

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1 Analy Batch No.: 279985

SDG No.: _____

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 11/18/2016 12:29 Calibration End Date: 11/18/2016 15:20 Calibration ID: 11859

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			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
Benzyl chloride	DCBd 4	Ave	++++ 80673	++++ 175865	7261 314686	13922	26776	++++ 50.0	++++ 100	5.00 200	10.0	20.0
n-Butylbenzene	DCBd 4	Ave	++++ 409737	++++ 823908	37348 1291615	85076	142946	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	++++ 582060	++++ 1200695	60747 2074120	126675	205738	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	++++ 32808	++++ 75412	3299 143810	6027	10076	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	++++ 502101	++++ 997833	49665 1631456	107958	176007	++++ 50.0	++++ 100	5.00 200	10.0	20.0
n-Nonyl Aldehyde	DCBd 4	Lin1	++++ 155897	++++ 358417	13120 708552	26222	47587	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Hexachlorobutadiene	DCBd 4	Ave	++++ 263508	++++ 535242	22946 837947	55664	89385	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	++++ 403723	++++ 823208	41703 1416470	85227	140910	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Naphthalene	DCBd 4	Ave	++++ 669727	++++ 1476926	71589 2623812	135772	230501	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	++++ 322064	++++ 672034	33098 1169527	68019	113634	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	++++ 300816	++++ 588374	30487 1145550	64543	103379	++++ 50.0	++++ 100	5.00 200	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	++++ 313988	++++ 628512	33432 1235339	66269	106952	++++ 50.0	++++ 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	++++ 1480229	++++ 2858383	150073 5187997	324813	511756	++++ 50.0	++++ 100	5.00 200	10.0	20.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	++++ 477841	++++ 962741	48402 1816497	99899	165926	++++ 50.0	++++ 100	5.00 200	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\MSX\20161118-9113.b\XICL4405.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 18-Nov-2016 12:29:30 ALS Bottle#: 2 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 0.2
 Operator ID: ADB Instrument ID: VMSX
 Sublist: chrom-5mL-8260-MSX*sub15
 Method: \\ChromNA\StLouis\ChromData\MSX\20161118-9113.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Nov-2016 09:41:15 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\MSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN

Process Host: XAWRK037

First Level Reviewer: buettnera

Date: 21-Nov-2016 08:49:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.901	1.913	-0.012	94	10910	1.00	0.9020	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.067				ND	ND	
3 Chloromethane	50	2.114	2.114	0.000	96	16004	1.00	0.9770	
4 Vinyl chloride	62	2.221	2.221	0.000	95	13016	1.00	1.03	
121 Butadiene	39	2.245	2.245	0.001	84	13113	1.00	1.13	
5 Bromomethane	94	2.623	2.623	0.000	8	3007	1.00	0.7675	
6 Chloroethane	64		2.789				ND	ND	
7 Trichlorofluoromethane	101	2.954	2.966	-0.012	94	10342	1.00	0.9699	
122 Dichlorofluoromethane	67	3.049	3.061	-0.012	94	12477	1.00	1.03	
8 Ethyl ether	74	3.404	3.404	0.000	87	4045	1.00	0.8906	
11 Ethanol	45		3.653				ND	ND	
9 1,1-Dichloroethene	96	3.653	3.664	-0.011	69	10567	1.00	1.03	
10 Carbon disulfide	76	3.664	3.664	0.000	98	35244	1.00	0.99	
12 1,1,2-Trichloro-1,2,2-trif	151	3.759	3.771	-0.012	86	6683	1.00	0.8520	
13 Iodomethane	142		3.854				ND	ND	
14 Acrolein	56	4.197	4.209	-0.012	95	4281	5.00	4.48	
15 3-Chloro-1-propene	39	4.410	4.422	-0.012	88	13060	1.00	1.04	
16 Isopropyl alcohol	45	4.564	4.564	0.000	1	1551	10.0	5.63	
17 Methylene Chloride	84	4.587	4.599	-0.012	92	9467	1.00	1.06	
18 Acetone	43		4.718				ND	ND	
19 trans-1,2-Dichloroethene	96	4.860	4.860	0.000	91	9841	1.00	0.9198	
20 Methyl acetate	74	4.942	4.942	0.000	61	1708	5.00	2.49	
21 Hexane	86	5.013	5.013	0.000	85	2766	1.00	0.7313	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	91	18505	1.00	1.03	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	7	2550	10.0	5.60	
24 Acetonitrile	41	5.451	5.439	0.012	83	6415	10.0	11.1	
25 Isopropyl ether	45	5.712	5.712	0.000	96	34822	1.00	1.03	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	91	19837	1.00	0.9541	
S 26 1,2-Dichloroethene, Total	96				0			1.88	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	1	20424	1.00	1.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.925	5.925	0.000	99	19375	10.0	10.6	
30 Tert-butyl ethyl ether	59	6.256	6.256	0.000	95	27150	1.00	0.9848	
31 Vinyl acetate	43	6.268	6.268	0.000	49	15908	1.00	1.01	
32 cis-1,2-Dichloroethene	96	6.611	6.623	-0.012	79	10157	1.00	0.9640	
33 2,2-Dichloropropane	77		6.765				ND	ND	
34 Cyclohexane	84	6.859	6.871	-0.012	89	17610	1.00	0.9675	
35 Chlorobromomethane	128	6.871	6.883	-0.012	42	2600	1.00	0.7784	
36 Chloroform	83	7.013	7.013	0.000	89	16275	1.00	1.01	
37 Carbon tetrachloride	117	7.155	7.167	-0.012	92	12424	1.00	0.9410	
38 Tetrahydrofuran	71		7.226				ND	ND	
39 Ethyl acetate	45		7.238				ND	ND	
\$ 41 Dibromofluoromethane (Surr	113		7.262				ND	ND	
40 1,1,1-Trichloroethane	97	7.262	7.262	0.000	92	14663	1.00	0.9593	
42 1,1-Dichloropropene	75	7.427	7.439	-0.012	88	14610	1.00	0.9738	
43 2-Butanone (MEK)	43		7.463				ND	ND	
124 Isooctane	57	7.605	7.605	0.000	95	57463	1.00	1.02	
117 n-Heptane	43	7.759	7.759	0.000	72	24922	1.00	1.08	
44 Benzene	78	7.759	7.770	-0.011	96	48340	1.00	1.17	
45 Propionitrile	54		7.830				ND	ND	
46 Methacrylonitrile	41	7.853	7.865	-0.012	92	34082	10.0	11.5	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	17	7694	1.00	1.05	
48 Tert-amyl methyl ether	73	7.960	7.972	-0.012	92	19187	1.00	1.03	
49 1,2-Dichloroethane	62	8.031	8.043	-0.012	87	9122	1.00	0.9548	
50 Isobutyl alcohol	42	8.161	8.161	0.000	37	1637	25.0	13.5	
* 51 Fluorobenzene	96	8.315	8.327	-0.012	98	1765532	50.0	50.0	
52 Methylcyclohexane	55	8.504	8.504	0.000	93	19973	1.00	1.00	
53 Trichloroethene	95	8.528	8.528	0.000	94	9780	1.00	0.9897	
54 n-Butanol	56	9.048	9.048	0.000	7	2081	25.0	90.4	
55 Dibromomethane	93	9.048	9.060	-0.012	78	2907	1.00	0.8328	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	89	9921	1.00	0.9796	
123 Ethyl acrylate	55		9.285				ND	ND	
57 Dichlorobromomethane	83	9.285	9.285	0.000	88	9185	1.00	0.9226	
58 Methyl methacrylate	69	9.534	9.534	0.000	90	6059	2.00	1.74	
59 1,4-Dioxane	88		9.557				ND	ND	
60 2-Chloroethyl vinyl ether	63		10.042				ND	ND	
61 cis-1,3-Dichloropropene	75	10.090	10.090	0.000	90	12294	1.00	0.9345	
\$ 62 Toluene-d8 (Surr)	98	10.315	10.315	0.000	90	34374	1.00	1.02	
63 Toluene	92	10.374	10.374	0.000	98	26289	1.00	1.05	
64 2-Nitropropane	43		10.681				ND	ND	
65 Tetrachloroethene	164	10.823	10.823	0.000	87	6904	1.00	0.8582	
66 4-Methyl-2-pentanone (MIBK	43		10.859				ND	ND	
67 trans-1,3-Dichloropropene	75	10.883	10.883	0.000	91	8707	1.00	0.8628	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	81	3887	1.00	0.8632	
69 Ethyl methacrylate	69		11.096				ND	ND	
70 Chlorodibromomethane	129	11.249	11.249	0.000	80	4401	1.00	0.7833	
71 1,3-Dichloropropane	76	11.356	11.368	-0.012	86	10343	1.00	1.02	
72 Ethylene Dibromide	107	11.498	11.498	0.000	92	4433	1.00	0.9210	
S 73 1,3-Dichloropropene, Total	75				0			1.80	
118 n-Butyl acetate	43		11.687				ND	ND	
74 2-Hexanone	43		11.782				ND	ND	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	89	1107246	50.0	50.0	
75 1-Chlorohexane	91	12.042	12.054	-0.012	34	18096	1.00	1.23	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.054	12.054	0.000	76	24810	1.00	1.12	
78 Ethylbenzene	91	12.090	12.089	0.001	94	49491	1.00	1.05	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	87	6231	1.00	0.8906	
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	95	19535	1.00	1.10	
82 o-Xylene	106	12.657	12.669	-0.012	97	16274	1.00	0.99	
83 Styrene	104	12.717	12.717	0.000	94	24439	1.00	1.01	
84 Bromoform	173		12.728				ND	ND	
85 Isopropylbenzene	105	12.965	12.965	0.000	95	47530	1.00	1.03	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	83	10788	1.00	0.9281	
87 Bromobenzene	156	13.320	13.320	0.000	93	8208	1.00	0.9583	
88 N-Propylbenzene	91	13.356	13.356	0.000	98	55391	1.00	1.07	
89 1,1,2,2-Tetrachloroethane	83		13.427				ND	ND	
90 2-Chlorotoluene	91	13.498	13.498	0.000	95	33283	1.00	1.09	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	92	37499	1.00	1.06	
92 1,2,3-Trichloropropane	110		13.545				ND	ND	
93 trans-1,4-Dichloro-2-buten	53		13.592				ND	ND	
94 Cyclohexanone	55		13.592				ND	ND	
95 4-Chlorotoluene	91	13.651	13.651	0.000	97	32582	1.00	1.08	
96 tert-Butylbenzene	119	13.829	13.829	0.000	94	32147	1.00	1.02	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	95	36189	1.00	1.04	
98 sec-Butylbenzene	105	13.983	13.983	0.000	93	51310	1.00	1.08	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	39160	1.00	1.03	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	94	18385	1.00	1.10	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	474802	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	90	15877	1.00	1.02	
119 1,2,3-Trimethylbenzene	105	14.279	14.279	0.000	93	33555	1.00	1.06	
120 Benzyl chloride	126		14.480				ND	ND	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	9823	1.00	1.03	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	93	14837	1.00	1.04	
105 1,2-Dibromo-3-Chloropropan	157		15.320				ND	ND	
106 n-Nonyl Aldehyde	57	15.344	15.344	0.000	1	4177	1.00	3.89	
107 1,3,5-Trichlorobenzene	180	15.344	15.344	0.000	93	11797	1.00	0.99	
108 Hexachlorobutadiene	225	15.864	15.864	0.000	85	6269	1.00	1.03	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	90	9774	1.00	1.00	
110 Naphthalene	128	16.172	16.172	0.000	8	18189	1.00	1.09	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	95	8280	1.00	1.05	
S 112 Xylenes, Total	106				0			2.09	
S 113 Trihalomethanes, Total	1				0			2.72	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

8260 Surr 25_00067

Amount Added: 0.20

Units: uL

8260 NewWkMix_00192

Amount Added: 0.20

Units: uL

I.S. Working_00140

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4405.D

Injection Date: 18-Nov-2016 12:29:30

Instrument ID: VMSX

Operator ID: ADB

Lims ID: IC

Worklist Smp#: 5

Client ID:

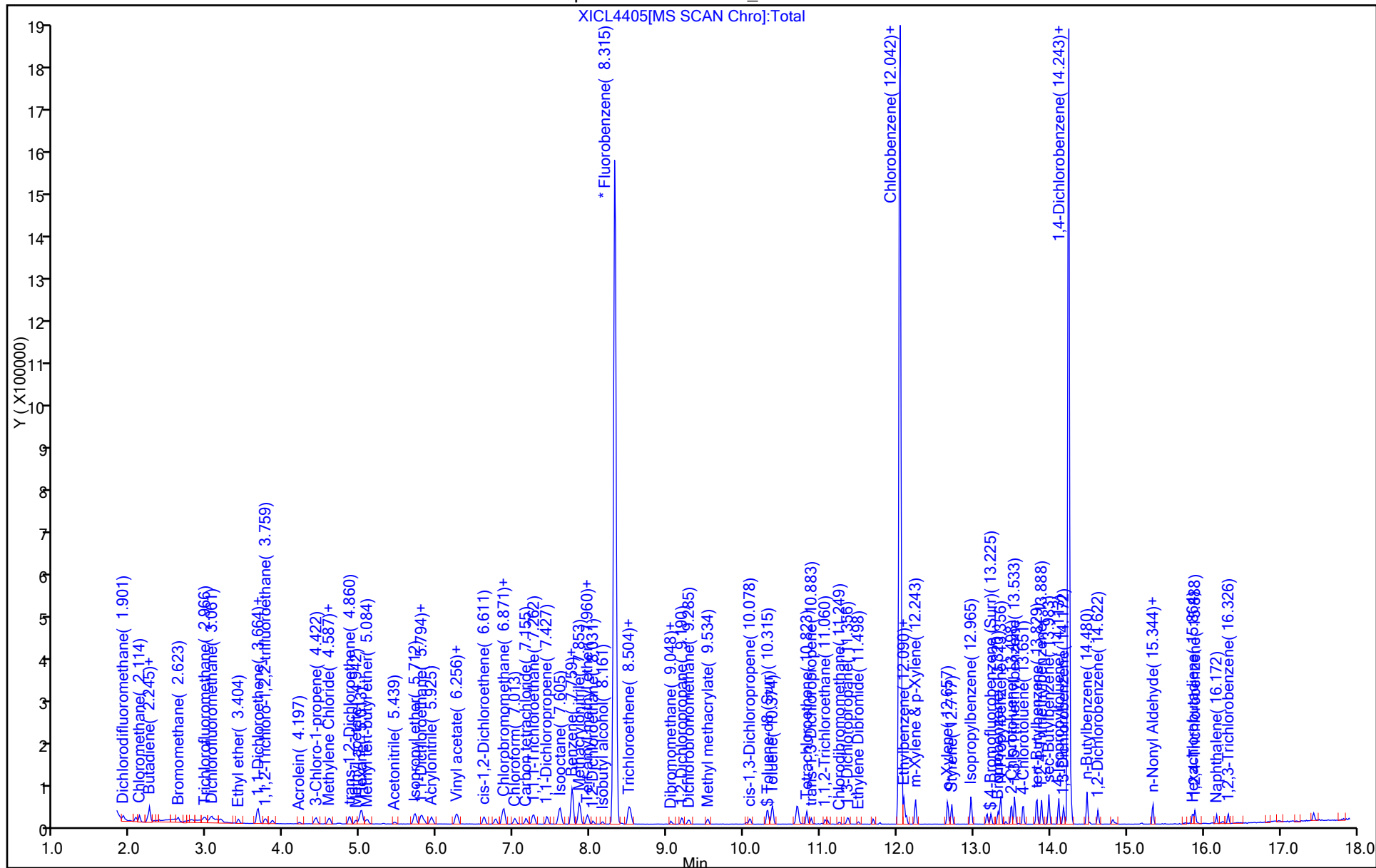
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4406.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 18-Nov-2016 12:53:30 ALS Bottle#: 3 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 0.5
 Operator ID: ADB Instrument ID: VMSX
 Sublist: chrom-5mL-8260-MSX*sub15
 Method: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Nov-2016 09:41:17 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN

Process Host: XAWRK037

First Level Reviewer: buettnera

Date: 21-Nov-2016 08:49:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.901	1.913	-0.012	98	30540	2.50	2.63	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.067	2.067	0.000	56	13160	2.50	2.21	
3 Chloromethane	50	2.114	2.114	0.000	98	40909	2.50	2.60	
4 Vinyl chloride	62	2.221	2.221	0.000	97	31065	2.50	2.55	
121 Butadiene	39	2.244	2.245	0.000	89	31278	2.50	2.82	
5 Bromomethane	94	2.623	2.623	0.000	90	9232	2.50	2.45	
6 Chloroethane	64	2.789	2.789	0.000	95	11256	2.50	2.69	
7 Trichlorofluoromethane	101	2.954	2.966	-0.012	97	25428	2.50	2.48	
122 Dichlorofluoromethane	67	3.061	3.061	0.000	95	30780	2.50	2.65	
8 Ethyl ether	74	3.404	3.404	0.000	94	11493	2.50	2.64	
11 Ethanol	45	3.641	3.653	-0.012	1	0	100.0	0	
9 1,1-Dichloroethene	96	3.653	3.664	-0.012	89	26211	2.50	2.66	
10 Carbon disulfide	76	3.664	3.664	0.000	99	91199	2.50	2.67	
12 1,1,2-Trichloro-1,2,2-trif	151	3.759	3.771	-0.012	91	18931	2.50	2.51	
13 Iodomethane	142	3.854	3.854	0.000	97	36116	2.50	2.73	
14 Acrolein	56	4.197	4.209	-0.012	96	10774	12.5	11.8	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	91	32255	2.50	2.68	
16 Isopropyl alcohol	45	4.564	4.564	0.000	95	6438	25.0	24.3	
17 Methylene Chloride	84	4.587	4.599	-0.012	98	24027	2.50	2.80	
18 Acetone	43	4.717	4.718	-0.001	29	5571	2.50	1.94	
19 trans-1,2-Dichloroethene	96	4.859	4.860	-0.001	93	26385	2.50	2.57	
20 Methyl acetate	74	4.942	4.942	0.000	97	7751	12.5	11.8	
21 Hexane	86	5.013	5.013	0.000	85	8765	2.50	2.41	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	1	45963	2.50	2.67	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	91	9740	25.0	22.3	
24 Acetonitrile	41	5.451	5.439	0.012	94	15452	25.0	27.9	
25 Isopropyl ether	45	5.711	5.712	-0.001	94	86413	2.50	2.67	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	92	50828	2.50	2.55	
S 26 1,2-Dichloroethene, Total	96				0			5.24	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	95	52495	2.50	2.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.924	5.925	-0.001	99	44601	25.0	25.3	
30 Tert-butyl ethyl ether	59	6.256	6.256	0.000	98	68359	2.50	2.58	
31 Vinyl acetate	43	6.268	6.268	0.000	96	39139	2.50	2.58	
32 cis-1,2-Dichloroethene	96	6.611	6.623	-0.012	82	27009	2.50	2.67	
33 2,2-Dichloropropane	77	6.765	6.765	0.000	90	31405	2.50	2.66	
34 Cyclohexane	84	6.871	6.871	0.000	92	48690	2.50	2.79	
35 Chlorobromomethane	128	6.883	6.883	0.000	91	8575	2.50	2.67	
36 Chloroform	83	7.013	7.013	0.000	93	41585	2.50	2.69	
37 Carbon tetrachloride	117	7.155	7.167	-0.012	96	32652	2.50	2.58	
38 Tetrahydrofuran	71	7.221	7.226	-0.005	1	0	5.00	0	
39 Ethyl acetate	45	7.238	7.238	0.000	94	1886	5.00	2.88	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.262	0.000	1	16958	2.50	2.56	
40 1,1,1-Trichloroethane	97	7.262	7.262	0.000	97	38603	2.50	2.63	
42 1,1-Dichloropropene	75	7.427	7.439	-0.012	94	37487	2.50	2.60	
43 2-Butanone (MEK)	43	7.463	7.463	0.000	35	6269	2.50	3.03	
124 Isooctane	57	7.605	7.605	0.000	96	148470	2.50	2.74	
117 n-Heptane	43	7.759	7.759	0.000	78	62897	2.50	2.83	
44 Benzene	78	7.759	7.770	-0.011	97	112482	2.50	2.83	
45 Propionitrile	54	7.841	7.830	0.011	94	15854	25.0	25.8	
46 Methacrylonitrile	41	7.853	7.865	-0.012	93	76858	25.0	27.1	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	85	17137	2.50	2.45	
48 Tert-amyl methyl ether	73	7.960	7.972	-0.012	97	49052	2.50	2.73	
49 1,2-Dichloroethane	62	8.031	8.043	-0.012	95	24517	2.50	2.67	
50 Isobutyl alcohol	42	8.149	8.161	-0.012	93	6636	62.5	57.2	
* 51 Fluorobenzene	96	8.315	8.327	-0.012	98	1695130	50.0	50.0	
52 Methylcyclohexane	55	8.504	8.504	0.000	94	50811	2.50	2.65	
53 Trichloroethene	95	8.528	8.528	0.000	96	24168	2.50	2.55	
54 n-Butanol	56	9.048	9.048	0.000	49	6523	62.5	123.3	
55 Dibromomethane	93	9.060	9.060	0.000	94	7366	2.50	2.20	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	95	25106	2.50	2.58	
123 Ethyl acrylate	55	9.285	9.285	0.000	1	15877	2.50	2.29	
57 Dichlorobromomethane	83	9.285	9.285	0.000	94	22119	2.50	2.31	
58 Methyl methacrylate	69	9.533	9.534	-0.001	94	15557	5.00	4.65	
59 1,4-Dioxane	88		9.557				ND	ND	
60 2-Chloroethyl vinyl ether	63	10.030	10.042	-0.012	1	7475	2.50	2.03	
61 cis-1,3-Dichloropropene	75	10.078	10.090	-0.012	94	31370	2.50	2.48	
\$ 62 Toluene-d8 (Surr)	98	10.314	10.315	-0.001	94	85611	2.50	2.64	
63 Toluene	92	10.374	10.374	0.000	98	64684	2.50	2.69	
64 2-Nitropropane	43	10.669	10.681	-0.012	89	4767	5.00	9.54	
65 Tetrachloroethene	164	10.823	10.823	0.000	96	20285	2.50	2.63	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	91	10625	2.50	2.36	
67 trans-1,3-Dichloropropene	75	10.882	10.883	-0.001	93	23101	2.50	2.39	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	86	10264	2.50	2.38	
69 Ethyl methacrylate	69	11.095	11.096	-0.001	90	15324	2.50	2.24	
70 Chlorodibromomethane	129	11.249	11.249	0.000	86	12333	2.50	2.29	
71 1,3-Dichloropropane	76	11.356	11.368	-0.012	92	24490	2.50	2.53	
72 Ethylene Dibromide	107	11.498	11.498	0.000	95	10670	2.50	2.31	
S 73 1,3-Dichloropropene, Total	75				0			4.87	
118 n-Butyl acetate	43	11.687	11.687	0.000	97	18906	2.50	2.24	
74 2-Hexanone	43	11.782	11.782	0.000	28	7724	2.50	2.48	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	89	1060960	50.0	50.0	
75 1-Chlorohexane	91	12.054	12.054	0.000	35	40749	2.50	2.90	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.054	12.054	0.000	97	57735	2.50	2.72	
78 Ethylbenzene	91	12.089	12.089	0.000	97	119502	2.50	2.64	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	89	16074	2.50	2.40	
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	44594	2.50	2.61	
82 o-Xylene	106	12.669	12.669	0.000	97	39381	2.50	2.51	
83 Styrene	104	12.717	12.717	0.000	96	58645	2.50	2.52	
84 Bromoform	173	12.728	12.728	0.000	88	4947	2.50	2.11	
85 Isopropylbenzene	105	12.965	12.965	0.000	95	114733	2.50	2.66	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	82	28222	2.50	2.60	
87 Bromobenzene	156	13.320	13.320	0.000	93	19938	2.50	2.49	
88 N-Propylbenzene	91	13.355	13.356	-0.001	98	129988	2.50	2.68	
89 1,1,2,2-Tetrachloroethane	83	13.426	13.427	-0.001	1	13082	2.50	2.59	
90 2-Chlorotoluene	91	13.497	13.498	-0.001	96	75724	2.50	2.65	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	94	88568	2.50	2.68	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	80	3705	2.50	2.53	
93 trans-1,4-Dichloro-2-buten	53	13.592	13.592	0.000	1	2790	2.50	1.67	
94 Cyclohexanone	55	13.592	13.592	0.000	1	2790	25.0	19.5	
95 4-Chlorotoluene	91	13.651	13.651	0.000	98	73493	2.50	2.61	
96 tert-Butylbenzene	119	13.829	13.829	0.000	93	76875	2.50	2.62	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	97	85794	2.50	2.65	
98 sec-Butylbenzene	105	13.983	13.983	0.000	94	120842	2.50	2.72	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	92968	2.50	2.62	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	97	42065	2.50	2.68	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	443768	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	93	38643	2.50	2.65	
119 1,2,3-Trimethylbenzene	105	14.278	14.279	-0.001	97	77736	2.50	2.64	
120 Benzyl chloride	126	14.480	14.480	0.000	89	3908	2.50	2.21	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	21825	2.50	2.46	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	94	35753	2.50	2.68	
105 1,2-Dibromo-3-Chloropropan	157	15.323	15.320	0.003	1	0	2.50	0	
106 n-Nonyl Aldehyde	57	15.343	15.344	-0.001	53	7530	2.50	4.74	
107 1,3,5-Trichlorobenzene	180	15.343	15.344	-0.001	95	27707	2.50	2.49	
108 Hexachlorobutadiene	225	15.864	15.864	0.000	95	13528	2.50	2.38	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	92	23421	2.50	2.57	
110 Naphthalene	128	16.172	16.172	0.000	96	38597	2.50	2.48	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	94	18557	2.50	2.52	
S 112 Xylenes, Total	106				0			5.12	
S 113 Trihalomethanes, Total	1				0			9.40	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

8260 Surr 25_00067

Amount Added: 0.50

Units: uL

8260 NewWkMix_00192

Amount Added: 0.50

Units: uL

I.S. Working_00140

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\MSX\20161118-9113.b\XICL4406.D

Injection Date: 18-Nov-2016 12:53:30

Instrument ID: VMSX

Operator ID: ADB

Lims ID: IC

Worklist Smp#: 6

Client ID:

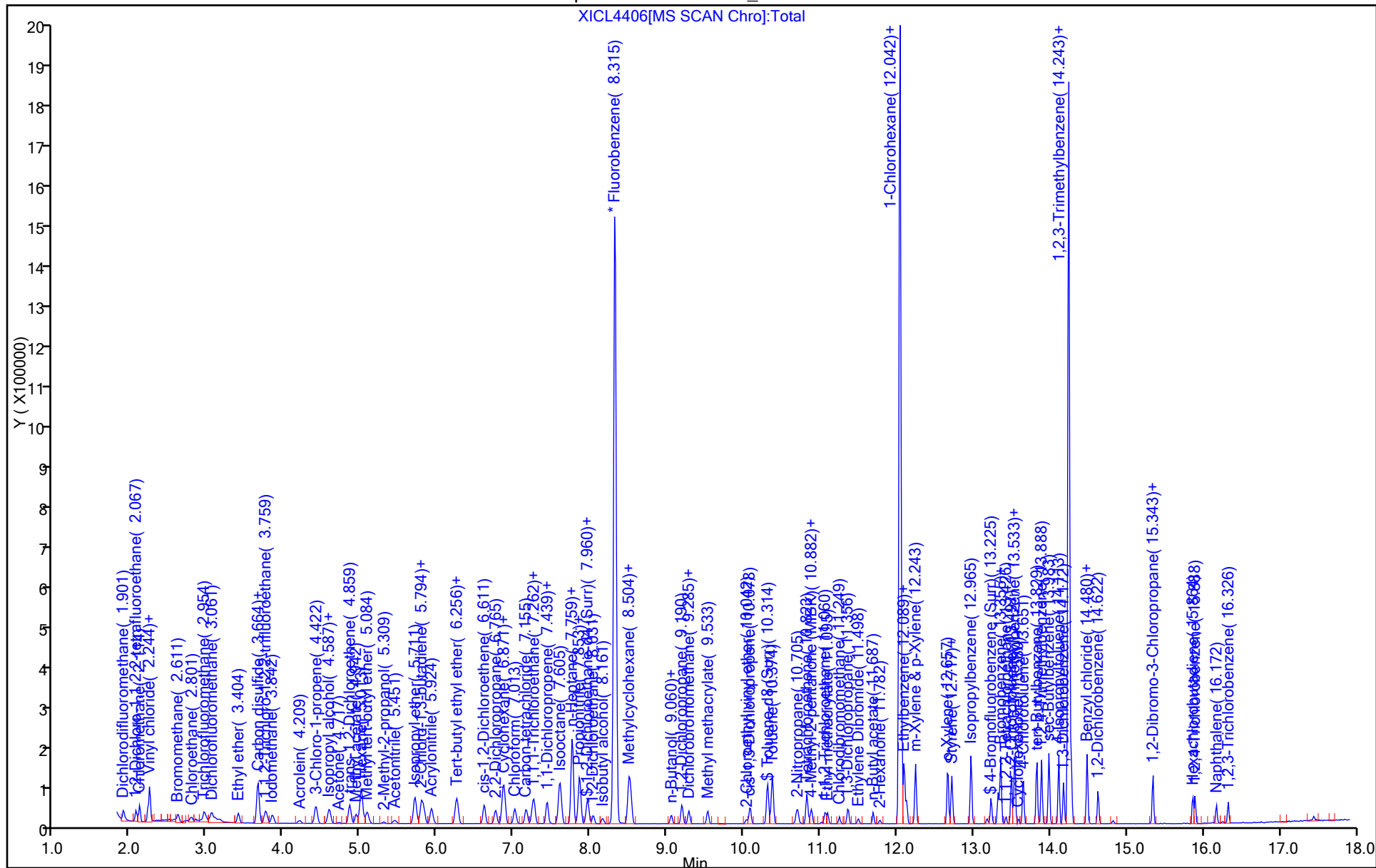
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4407.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 18-Nov-2016 13:18:30 ALS Bottle#: 4 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Operator ID: ADB Instrument ID: VMSX
 Sublist: chrom-5mL-8260-MSX*sub15
 Method: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Nov-2016 09:41:18 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: buettnera Date: 21-Nov-2016 08:47:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.913	1.913	0.000	99	55355	5.00	5.30	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.079	2.067	0.012	97	27452	5.00	5.13	
3 Chloromethane	50	2.114	2.114	0.000	98	77885	5.00	5.51	
4 Vinyl chloride	62	2.221	2.221	0.000	97	58422	5.00	5.34	
121 Butadiene	39	2.244	2.245	0.000	88	57247	5.00	5.73	
5 Bromomethane	94	2.623	2.623	0.000	90	17181	5.00	5.08	
6 Chloroethane	64	2.789	2.789	0.000	98	20565	5.00	5.47	
7 Trichlorofluoromethane	101	2.966	2.966	0.000	97	47393	5.00	5.15	
122 Dichlorofluoromethane	67	3.061	3.061	0.000	97	56390	5.00	5.41	
8 Ethyl ether	74	3.404	3.404	0.000	95	20976	5.00	5.35	
11 Ethanol	45	3.653	3.653	0.000	30	9917	200.0	216.9	
9 1,1-Dichloroethene	96	3.664	3.664	0.000	91	47601	5.00	5.37	
10 Carbon disulfide	76	3.664	3.664	0.000	99	164462	5.00	5.37	
12 1,1,2-Trichloro-1,2,2-trif	151	3.759	3.771	-0.012	93	36076	5.00	5.33	
13 Iodomethane	142	3.854	3.854	0.000	99	63500	5.00	5.33	
14 Acrolein	56	4.209	4.209	0.000	97	22230	25.0	27.0	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	92	57232	5.00	5.28	
16 Isopropyl alcohol	45	4.564	4.564	0.000	98	12294	50.0	51.7	
17 Methylene Chloride	84	4.599	4.599	0.000	98	41813	5.00	5.42	
18 Acetone	43	4.717	4.718	-0.001	65	8278	5.00	5.12	
19 trans-1,2-Dichloroethene	96	4.859	4.860	-0.001	94	49178	5.00	5.33	
20 Methyl acetate	74	4.942	4.942	0.000	98	15768	25.0	26.6	
21 Hexane	86	5.013	5.013	0.000	86	18225	5.00	5.58	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	93	85274	5.00	5.52	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	96	19611	50.0	49.9	
24 Acetonitrile	41	5.439	5.439	0.000	98	27103	50.0	54.5	
25 Isopropyl ether	45	5.711	5.712	-0.001	96	157642	5.00	5.42	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	92	95506	5.00	5.32	
S 26 1,2-Dichloroethene, Total	96				0			10.6	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	96	94819	5.00	5.51	
29 Acrylonitrile	53	5.924	5.925	-0.001	99	85621	50.0	54.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	6.256	6.256	0.000	99	127598	5.00	5.36	
31 Vinyl acetate	43	6.268	6.268	0.000	96	73125	5.00	5.36	
32 cis-1,2-Dichloroethene	96	6.623	6.623	0.000	81	48186	5.00	5.30	
33 2,2-Dichloropropane	77	6.765	6.765	0.000	91	58378	5.00	5.51	
34 Cyclohexane	84	6.871	6.871	0.000	92	84715	5.00	5.39	
35 Chlorobromomethane	128	6.883	6.883	0.000	91	15074	5.00	5.23	
36 Chloroform	83	7.013	7.013	0.000	94	73554	5.00	5.29	
37 Carbon tetrachloride	117	7.167	7.167	0.000	97	58682	5.00	5.15	
38 Tetrahydrofuran	71	7.238	7.226	0.012	33	3457	10.0	8.60	
39 Ethyl acetate	45	7.238	7.238	0.000	95	5458	10.0	9.27	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.262	0.000	88	30487	5.00	5.12	
40 1,1,1-Trichloroethane	97	7.273	7.262	0.011	97	70279	5.00	5.33	
42 1,1-Dichloropropene	75	7.439	7.439	0.000	95	67778	5.00	5.24	
43 2-Butanone (MEK)	43	7.463	7.463	0.000	94	10339	5.00	5.56	
124 Isooctane	57	7.605	7.605	0.000	96	269082	5.00	5.52	
117 n-Heptane	43	7.759	7.759	0.000	96	109782	5.00	5.50	
44 Benzene	78	7.770	7.770	0.000	97	194947	5.00	5.45	
45 Propionitrile	54	7.841	7.830	0.011	97	29553	50.0	53.6	
46 Methacrylonitrile	41	7.865	7.865	0.000	93	144948	50.0	56.9	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	86	33432	5.00	5.31	
48 Tert-amyl methyl ether	73	7.972	7.972	0.000	95	88748	5.00	5.50	
49 1,2-Dichloroethane	62	8.043	8.043	0.000	96	44045	5.00	5.34	
50 Isobutyl alcohol	42	8.161	8.161	0.000	94	12388	125.0	118.8	
* 51 Fluorobenzene	96	8.327	8.327	0.000	98	1523331	50.0	50.0	
52 Methylcyclohexane	55	8.504	8.504	0.000	95	90801	5.00	5.26	
53 Trichloroethene	95	8.528	8.528	0.000	97	46330	5.00	5.43	
54 n-Butanol	56	9.048	9.048	0.000	85	11894	125.0	172.2	
55 Dibromomethane	93	9.060	9.060	0.000	95	15273	5.00	5.07	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	95	45304	5.00	5.18	
123 Ethyl acrylate	55	9.285	9.285	0.000	77	32483	5.00	5.22	
57 Dichlorobromomethane	83	9.285	9.285	0.000	97	44764	5.00	5.21	
58 Methyl methacrylate	69	9.533	9.534	-0.001	95	30624	10.0	10.2	
59 1,4-Dioxane	88	9.557	9.557	0.000	19	2215	100.0	97.6	M
60 2-Chloroethyl vinyl ether	63	10.042	10.042	0.000	90	15311	5.00	4.63	
61 cis-1,3-Dichloropropene	75	10.090	10.090	0.000	94	57818	5.00	5.09	
\$ 62 Toluene-d8 (Surr)	98	10.314	10.315	-0.001	93	150073	5.00	5.06	
63 Toluene	92	10.374	10.374	0.000	98	115136	5.00	5.23	
64 2-Nitropropane	43	10.669	10.681	-0.012	95	8208	10.0	13.2	
65 Tetrachloroethene	164	10.823	10.823	0.000	96	35784	5.00	5.08	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	94	21530	5.00	5.24	
67 trans-1,3-Dichloropropene	75	10.882	10.883	-0.001	96	44018	5.00	4.98	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	88	20540	5.00	5.21	
69 Ethyl methacrylate	69	11.095	11.096	-0.001	49	31146	5.00	4.97	
70 Chlorodibromomethane	129	11.249	11.249	0.000	88	23450	5.00	4.76	
71 1,3-Dichloropropane	76	11.368	11.368	0.000	95	46039	5.00	5.20	
72 Ethylene Dibromide	107	11.498	11.498	0.000	96	21629	5.00	5.13	
S 73 1,3-Dichloropropene, Total	75				0			10.1	
118 n-Butyl acetate	43	11.687	11.687	0.000	97	38094	5.00	4.94	
74 2-Hexanone	43	11.782	11.782	0.000	96	14123	5.00	4.96	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	90	970121	50.0	50.0	
75 1-Chlorohexane	91	12.054	12.054	0.000	82	67334	5.00	5.24	
77 Chlorobenzene	112	12.054	12.054	0.000	96	106154	5.00	5.48	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	12.089	12.089	0.000	98	215311	5.00	5.19	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	91	31679	5.00	5.17	
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	77542	5.00	4.97	
82 o-Xylene	106	12.669	12.669	0.000	97	74168	5.00	5.17	
83 Styrene	104	12.717	12.717	0.000	95	108323	5.00	5.09	
84 Bromoform	173	12.728	12.728	0.000	92	9715	5.00	4.61	
85 Isopropylbenzene	105	12.965	12.965	0.000	96	204619	5.00	5.27	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	85	48402	5.00	4.96	
87 Bromobenzene	156	13.320	13.320	0.000	96	37176	5.00	5.17	
88 N-Propylbenzene	91	13.356	13.356	0.000	98	226809	5.00	5.19	
89 1,1,2,2-Tetrachloroethane	83	13.427	13.427	-0.001	22	23101	5.00	5.09	
90 2-Chlorotoluene	91	13.498	13.498	0.000	96	134260	5.00	5.23	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	94	153396	5.00	5.16	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	81	6828	5.00	5.19	
93 trans-1,4-Dichloro-2-buten	53	13.592	13.592	0.000	73	7283	5.00	4.84	
94 Cyclohexanone	55	13.592	13.592	0.000	72	6477	50.0	50.3	
95 4-Chlorotoluene	91	13.651	13.651	0.000	98	131213	5.00	5.18	
96 tert-Butylbenzene	119	13.829	13.829	0.000	93	134643	5.00	5.11	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	149412	5.00	5.13	
98 sec-Butylbenzene	105	13.983	13.983	0.000	94	205489	5.00	5.15	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	159378	5.00	4.99	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	98	74166	5.00	5.26	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	398834	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	95	69840	5.00	5.32	
119 1,2,3-Trimethylbenzene	105	14.278	14.279	-0.001	97	136593	5.00	5.16	
120 Benzyl chloride	126	14.480	14.480	0.000	89	7261	5.00	4.57	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	37348	5.00	4.68	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	96	60747	5.00	5.07	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	1	3299	5.00	4.87	
106 n-Nonyl Aldehyde	57	15.343	15.344	-0.001	53	13120	5.00	6.39	
107 1,3,5-Trichlorobenzene	180	15.343	15.344	-0.001	96	49665	5.00	4.97	
108 Hexachlorobutadiene	225	15.864	15.864	0.000	95	22946	5.00	4.50	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	93	41703	5.00	5.09	
110 Naphthalene	128	16.172	16.172	0.000	97	71589	5.00	5.11	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	95	33098	5.00	5.01	
S 112 Xylenes, Total	106				0			10.1	
S 113 Trihalomethanes, Total	1				0			19.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 Surr 25_00067

Amount Added: 1.00

Units: uL

8260 NewWkMix_00192

Amount Added: 1.00

Units: uL

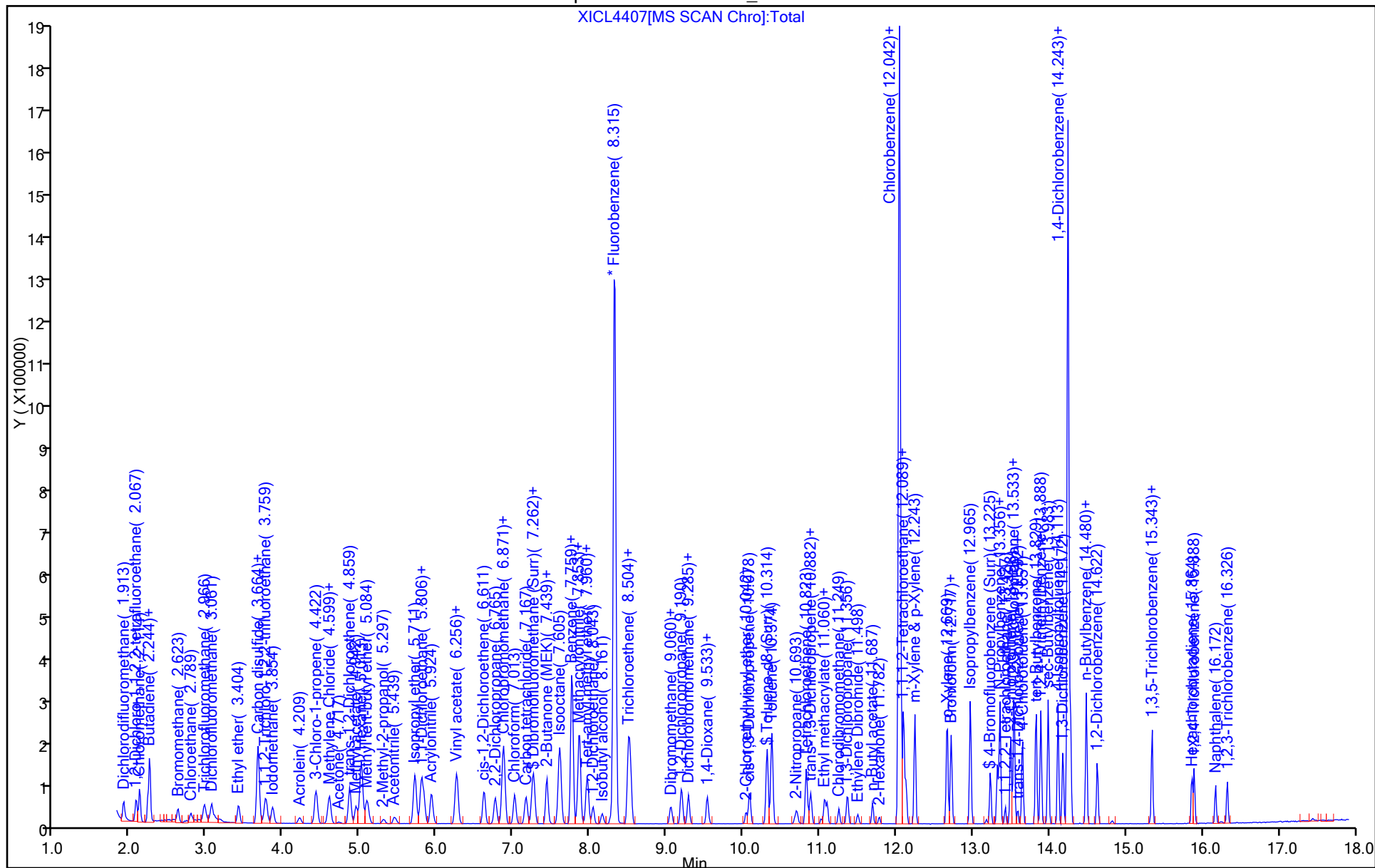
I.S. Working_00140

Amount Added: 10.00

Units: uL

Run Reagent

Limit Group: MSV-8260 DoD



TestAmerica St. Louis

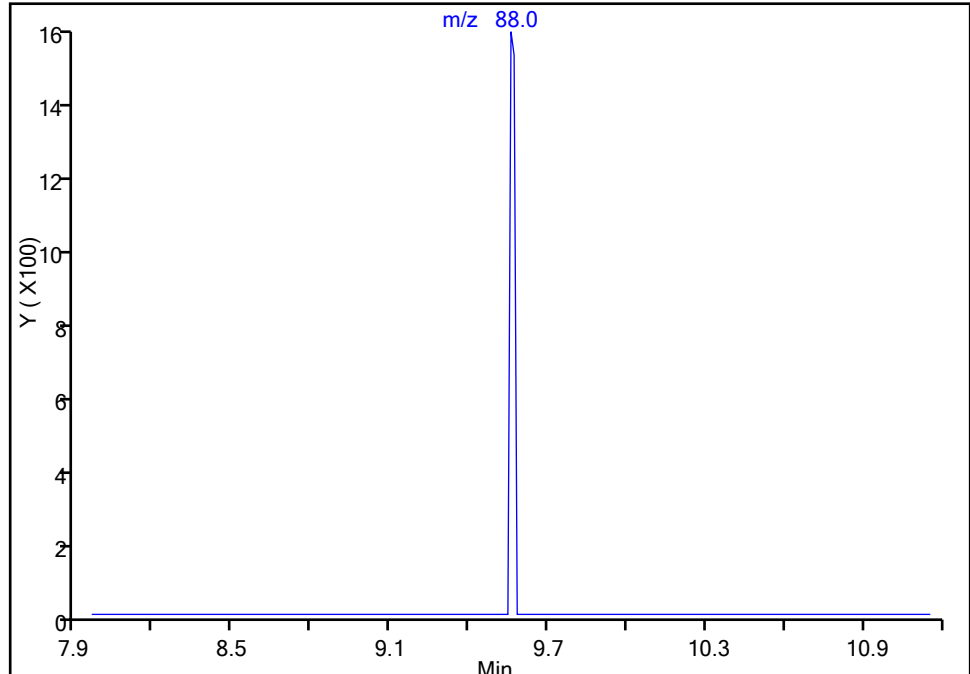
Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4407.D
Injection Date: 18-Nov-2016 13:18:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: ADB ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

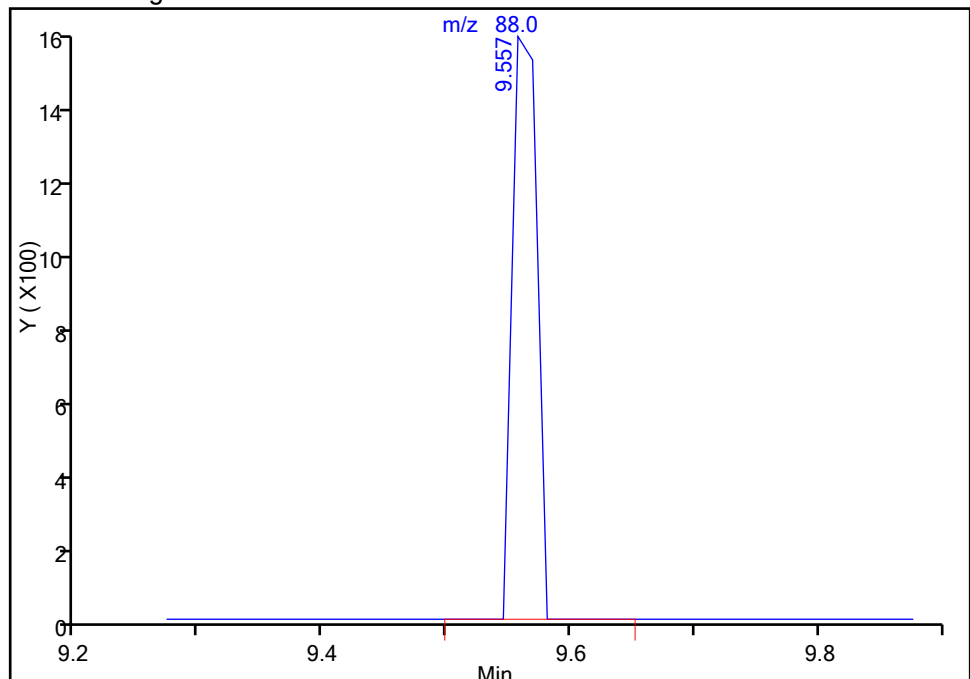
Not Detected
Expected RT: 9.56

Processing Integration Results



RT: 9.56
Area: 2215
Amount: 97.647127
Amount Units: ug/l

Manual Integration Results



Reviewer: buettnera, 21-Nov-2016 08:47:55

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\MSX\20161118-9113.b\XICL4408.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 18-Nov-2016 13:43:30 ALS Bottle#: 5 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Operator ID: ADB Instrument ID: VMSX
 Sublist: chrom-5mL-8260-MSX*sub15
 Method: \\ChromNA\StLouis\ChromData\MSX\20161118-9113.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Nov-2016 09:41:20 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\MSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: buettnera Date: 21-Nov-2016 08:47:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.913	1.913	0.000	99	117023	10.0	10.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.067	2.067	0.000	98	57820	10.0	10.2	
3 Chloromethane	50	2.114	2.114	0.000	99	152444	10.0	10.2	
4 Vinyl chloride	62	2.232	2.221	0.011	98	119827	10.0	10.3	
121 Butadiene	39	2.256	2.245	0.012	87	112534	10.0	10.6	
5 Bromomethane	94	2.623	2.623	0.000	93	34395	10.0	9.59	
6 Chloroethane	64	2.789	2.789	0.000	97	41762	10.0	10.5	
7 Trichlorofluoromethane	101	2.966	2.966	0.000	98	95432	10.0	9.77	
122 Dichlorofluoromethane	67	3.061	3.061	0.000	96	111195	10.0	10.0	
8 Ethyl ether	74	3.416	3.404	0.012	94	40226	10.0	9.67	
11 Ethanol	45	3.652	3.653	-0.001	29	18001	400.0	370.9	
9 1,1-Dichloroethene	96	3.664	3.664	0.000	91	96545	10.0	10.3	
10 Carbon disulfide	76	3.664	3.664	0.000	100	334068	10.0	10.3	
12 1,1,2-Trichloro-1,2,2-trif	151	3.771	3.771	0.000	95	74197	10.0	10.3	
13 Iodomethane	142	3.854	3.854	0.000	99	128539	10.0	10.2	
14 Acrolein	56	4.209	4.209	0.000	98	41648	50.0	47.6	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	92	114618	10.0	9.97	
16 Isopropyl alcohol	45	4.564	4.564	0.000	98	22627	100.0	89.6	
17 Methylene Chloride	84	4.599	4.599	0.000	99	81433	10.0	9.95	
18 Acetone	43	4.729	4.718	0.011	99	13844	10.0	9.74	
19 trans-1,2-Dichloroethene	96	4.859	4.860	-0.001	95	99306	10.0	10.1	
20 Methyl acetate	74	4.942	4.942	0.000	99	29044	50.0	46.2	
21 Hexane	86	5.013	5.013	0.000	86	34225	10.0	9.88	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	93	161470	10.0	9.85	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	98	37282	100.0	89.4	
24 Acetonitrile	41	5.451	5.439	0.012	100	48803	100.0	92.4	
25 Isopropyl ether	45	5.711	5.712	-0.001	96	304497	10.0	9.86	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	92	190851	10.0	10.0	
S 26 1,2-Dichloroethene, Total	96				0			20.0	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	96	184979	10.0	10.1	
29 Acrylonitrile	53	5.924	5.925	-0.001	100	161733	100.0	96.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	6.256	6.256	0.000	98	244599	10.0	9.69	
31 Vinyl acetate	43	6.267	6.268	-0.001	97	138747	10.0	9.57	
32 cis-1,2-Dichloroethene	96	6.611	6.623	-0.012	83	95205	10.0	9.87	
33 2,2-Dichloropropane	77	6.764	6.765	-0.001	93	113809	10.0	10.1	
34 Cyclohexane	84	6.871	6.871	0.000	93	172054	10.0	10.3	
35 Chlorobromomethane	128	6.883	6.883	0.000	94	31736	10.0	10.4	
36 Chloroform	83	7.013	7.013	0.000	94	146313	10.0	9.91	
37 Carbon tetrachloride	117	7.167	7.167	0.000	97	118332	10.0	9.79	
38 Tetrahydrofuran	71	7.238	7.226	0.012	95	7759	20.0	18.2	
39 Ethyl acetate	45	7.238	7.238	0.000	95	11919	20.0	19.1	
\$ 41 Dibromofluoromethane (Surr	113	7.261	7.262	-0.001	83	64543	10.0	10.2	
40 1,1,1-Trichloroethane	97	7.261	7.262	-0.001	98	143045	10.0	10.2	
42 1,1-Dichloropropene	75	7.439	7.439	0.000	95	137670	10.0	10.0	
43 2-Butanone (MEK)	43	7.463	7.463	0.000	97	17991	10.0	9.12	
124 Isooctane	57	7.605	7.605	0.000	96	529947	10.0	10.2	
117 n-Heptane	43	7.758	7.759	-0.001	80	220270	10.0	10.4	
44 Benzene	78	7.770	7.770	0.000	97	374002	10.0	9.86	
45 Propionitrile	54	7.841	7.830	0.011	94	55809	100.0	95.4	
46 Methacrylonitrile	41	7.865	7.865	0.000	93	269380	100.0	99.6	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	87	66269	10.0	9.92	
48 Tert-amyl methyl ether	73	7.971	7.972	-0.001	95	166508	10.0	9.71	
49 1,2-Dichloroethane	62	8.042	8.043	-0.001	96	84125	10.0	9.62	
50 Isobutyl alcohol	42	8.161	8.161	0.000	94	24102	250.0	217.7	
* 51 Fluorobenzene	96	8.326	8.327	-0.001	98	1616867	50.0	50.0	
52 Methylcyclohexane	55	8.504	8.504	0.000	94	187219	10.0	10.2	
53 Trichloroethene	95	8.528	8.528	0.000	98	89466	10.0	9.89	
54 n-Butanol	56	9.048	9.048	0.000	88	21294	250.0	238.4	
55 Dibromomethane	93	9.060	9.060	0.000	95	31383	10.0	9.82	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	96	91060	10.0	9.82	
123 Ethyl acrylate	55	9.285	9.285	0.000	98	59156	10.0	8.96	
57 Dichlorobromomethane	83	9.285	9.285	0.000	98	86318	10.0	9.47	
58 Methyl methacrylate	69	9.533	9.534	-0.001	94	59815	20.0	18.7	
59 1,4-Dioxane	88	9.557	9.557	0.000	53	6315	200.0	200.8	M
60 2-Chloroethyl vinyl ether	63	10.042	10.042	0.000	91	31584	10.0	9.00	
61 cis-1,3-Dichloropropene	75	10.090	10.090	0.000	94	115306	10.0	9.57	
\$ 62 Toluene-d8 (Surr)	98	10.314	10.315	-0.001	93	324813	10.0	10.4	
63 Toluene	92	10.374	10.374	0.000	98	232545	10.0	10.0	
64 2-Nitropropane	43	10.681	10.681	0.000	96	16960	20.0	20.8	
65 Tetrachloroethene	164	10.823	10.823	0.000	96	74658	10.0	10.1	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	93	39360	10.0	9.09	
67 trans-1,3-Dichloropropene	75	10.882	10.883	-0.001	95	87013	10.0	9.34	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	91	39753	10.0	9.56	
69 Ethyl methacrylate	69	11.095	11.096	-0.001	76	59465	10.0	9.01	
70 Chlorodibromomethane	129	11.249	11.249	0.000	89	46155	10.0	8.90	
71 1,3-Dichloropropane	76	11.367	11.368	-0.001	93	89613	10.0	9.61	
72 Ethylene Dibromide	107	11.498	11.498	0.000	98	41027	10.0	9.23	
S 73 1,3-Dichloropropene, Total	75				0			18.9	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	72903	10.0	8.97	
74 2-Hexanone	43	11.782	11.782	0.000	95	26653	10.0	8.89	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	89	1021957	50.0	50.0	
75 1-Chlorohexane	91	12.054	12.054	0.000	52	142104	10.0	10.5	
77 Chlorobenzene	112	12.054	12.054	0.000	95	209573	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	12.089	12.089	0.000	98	444020	10.0	10.2	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	92	62771	10.0	9.72	
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	161413	10.0	9.82	
82 o-Xylene	106	12.669	12.669	0.000	97	153343	10.0	10.2	
83 Styrene	104	12.716	12.717	-0.001	96	227607	10.0	10.1	
84 Bromoform	173	12.728	12.728	0.000	95	19115	10.0	8.80	
85 Isopropylbenzene	105	12.965	12.965	0.000	96	430744	10.0	10.8	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	84	99899	10.0	9.92	
87 Bromobenzene	156	13.320	13.320	0.000	95	74128	10.0	10.0	
88 N-Propylbenzene	91	13.355	13.356	-0.001	98	486331	10.0	10.8	
89 1,1,2,2-Tetrachloroethane	83	13.426	13.427	-0.001	94	43428	10.0	9.27	
90 2-Chlorotoluene	91	13.497	13.498	-0.001	96	275762	10.0	10.4	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	94	324349	10.0	10.6	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	80	13465	10.0	9.93	
93 trans-1,4-Dichloro-2-buten	53	13.580	13.592	-0.012	82	13622	10.0	8.78	
94 Cyclohexanone	55	13.592	13.592	0.000	75	11994	100.0	90.4	
95 4-Chlorotoluene	91	13.651	13.651	0.000	98	268735	10.0	10.3	
96 tert-Butylbenzene	119	13.829	13.829	0.000	93	285886	10.0	10.5	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	317302	10.0	10.6	
98 sec-Butylbenzene	105	13.983	13.983	0.000	94	445680	10.0	10.8	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	351788	10.0	10.7	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	97	150953	10.0	10.4	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	98	411258	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	94	137629	10.0	10.2	
119 1,2,3-Trimethylbenzene	105	14.278	14.279	-0.001	97	282747	10.0	10.4	
120 Benzyl chloride	126	14.480	14.480	0.000	89	13922	10.0	8.50	
103 n-Butylbenzene	134	14.480	14.480	0.000	98	85076	10.0	10.3	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	97	126675	10.0	10.3	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	86	6027	10.0	8.64	
106 n-Nonyl Aldehyde	57	15.343	15.344	-0.001	52	26222	10.0	9.59	
107 1,3,5-Trichlorobenzene	180	15.343	15.344	-0.001	96	107958	10.0	10.5	
108 Hexachlorobutadiene	225	15.864	15.864	0.000	97	55664	10.0	10.6	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	94	85227	10.0	10.1	
110 Naphthalene	128	16.172	16.172	0.000	97	135772	10.0	9.40	
111 1,2,3-Trichlorobenzene	180	16.325	16.326	-0.001	96	68019	10.0	9.98	
S 112 Xylenes, Total	106				0			20.0	
S 113 Trihalomethanes, Total	1				0			37.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 Surr 25_00067

Amount Added: 2.00

Units: uL

8260 NewWkMix_00192

Amount Added: 2.00

Units: uL

I.S. Working_00140

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\MSX\20161118-9113.b\XICL4408.D

Injection Date: 18-Nov-2016 13:43:30

Instrument ID: VMSX

Operator ID: ADB

Lims ID: IC

Worklist Smp#: 8

Client ID:

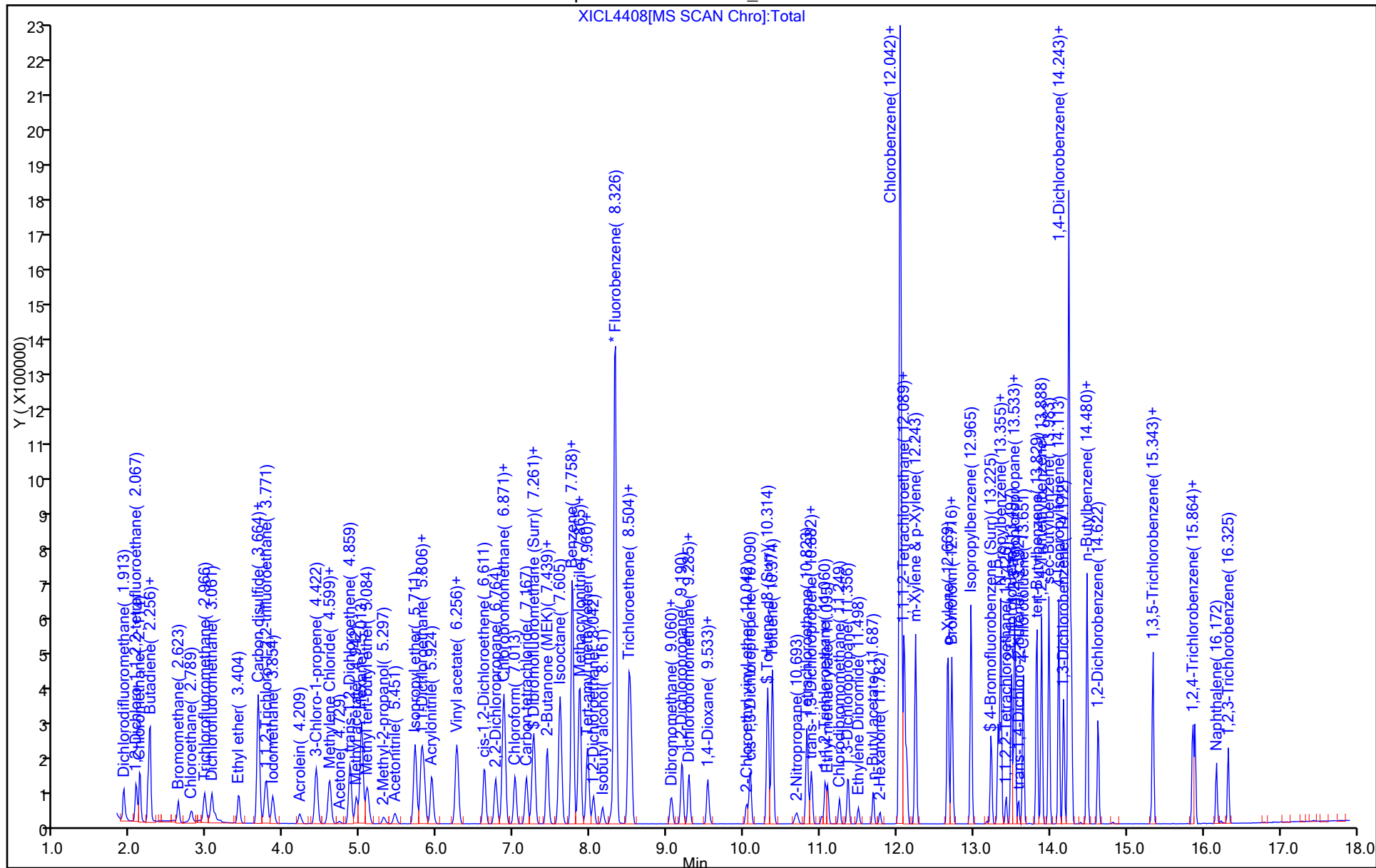
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis

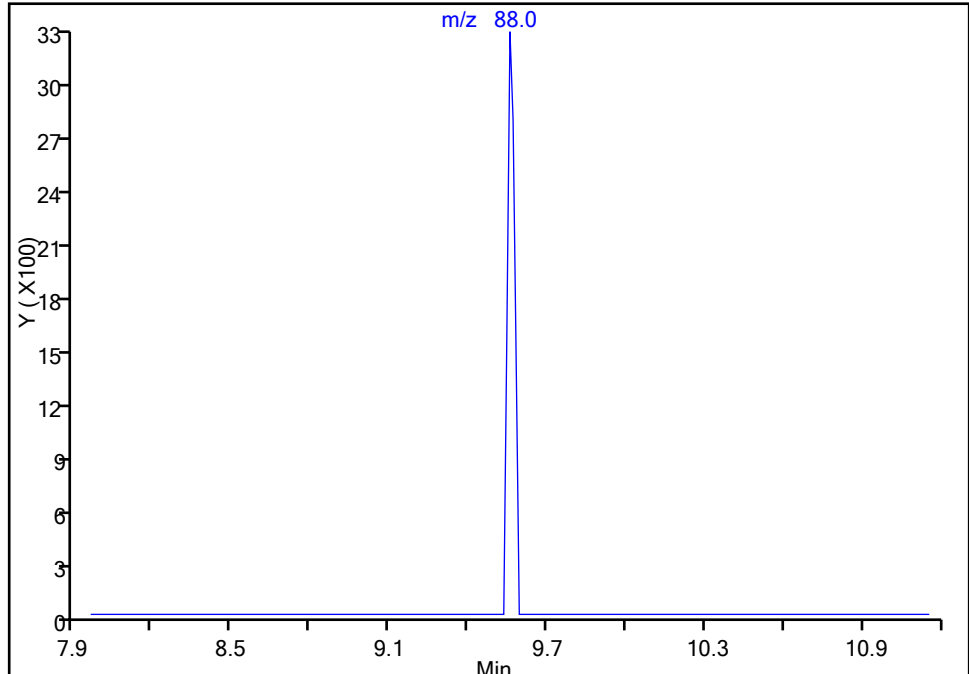
Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4408.D
Injection Date: 18-Nov-2016 13:43:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: ADB ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

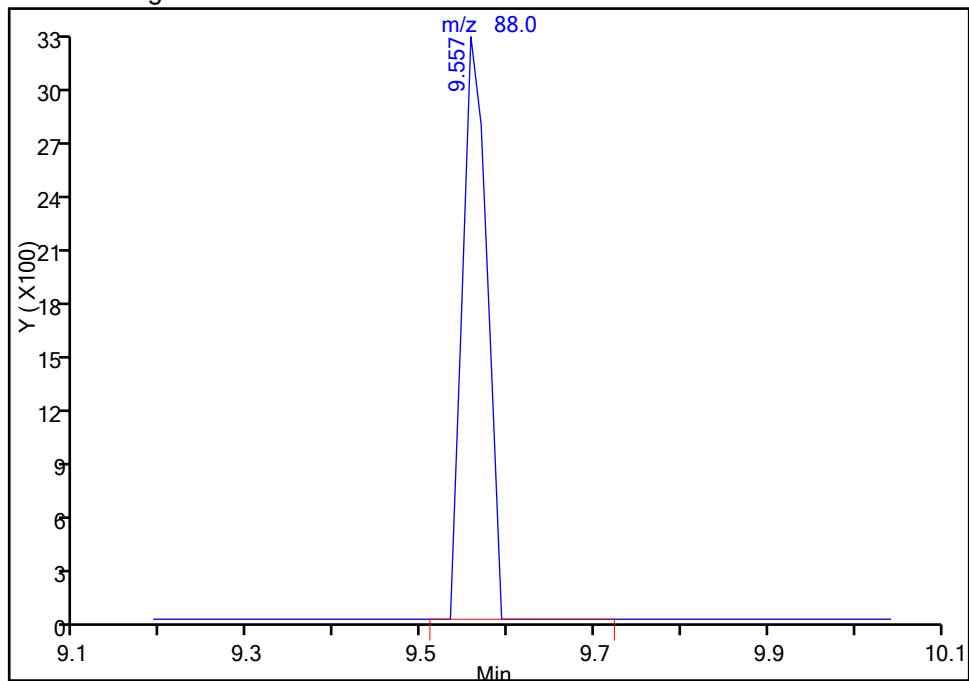
Not Detected
Expected RT: 9.56

Processing Integration Results



RT: 9.56
Area: 6315
Amount: 200.7899
Amount Units: ug/l

Manual Integration Results



Reviewer: buettnera, 21-Nov-2016 08:47:05

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4409.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 18-Nov-2016 14:07:30 ALS Bottle#: 6 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Operator ID: ADB Instrument ID: VMSX
 Sublist: chrom-5mL-8260-MSX*sub15
 Method: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Nov-2016 09:41:22 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: buettnera Date: 21-Nov-2016 08:46:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.901	1.913	-0.012	99	178058	20.0	19.7	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.067	2.067	0.000	98	91306	20.0	19.7	
3 Chloromethane	50	2.114	2.114	0.000	99	242722	20.0	19.9	
4 Vinyl chloride	62	2.221	2.221	0.000	98	186260	20.0	19.7	
121 Butadiene	39	2.244	2.245	0.000	87	174969	20.0	20.3	
5 Bromomethane	94	2.611	2.623	-0.012	93	59611	20.0	20.4	
6 Chloroethane	64	2.777	2.789	-0.012	98	65868	20.0	20.3	
7 Trichlorofluoromethane	101	2.954	2.966	-0.012	99	158145	20.0	19.9	
122 Dichlorofluoromethane	67	3.049	3.061	-0.012	97	174160	20.0	19.3	
8 Ethyl ether	74	3.404	3.404	0.000	94	66851	20.0	19.7	
11 Ethanol	45	3.652	3.653	-0.001	30	30899	800.0	781.8	
9 1,1-Dichloroethene	96	3.652	3.664	-0.012	93	149267	20.0	19.5	
10 Carbon disulfide	76	3.664	3.664	0.000	100	532373	20.0	20.1	
12 1,1,2-Trichloro-1,2,2-trif	151	3.759	3.771	-0.012	95	113345	20.0	19.4	
13 Iodomethane	142	3.854	3.854	0.000	99	201480	20.0	19.6	
14 Acrolein	56	4.197	4.209	-0.012	98	69466	100.0	97.6	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	92	183282	20.0	19.6	
16 Isopropyl alcohol	45	4.564	4.564	0.000	98	40912	200.0	199.0	
17 Methylene Chloride	84	4.599	4.599	0.000	99	133535	20.0	20.0	
18 Acetone	43	4.717	4.718	-0.001	99	20977	20.0	20.6	
19 trans-1,2-Dichloroethene	96	4.859	4.860	-0.001	94	156055	20.0	19.6	
20 Methyl acetate	74	4.942	4.942	0.000	98	50627	100.0	98.9	
21 Hexane	86	5.013	5.013	0.000	86	55771	20.0	19.8	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	95	264373	20.0	19.8	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	98	68186	200.0	200.8	
24 Acetonitrile	41	5.439	5.439	0.000	98	84802	200.0	197.1	
25 Isopropyl ether	45	5.711	5.712	-0.001	96	493768	20.0	19.6	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	93	302487	20.0	19.5	
S 26 1,2-Dichloroethene, Total	96				0			38.9	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	96	292702	20.0	19.7	
29 Acrylonitrile	53	5.924	5.925	-0.001	99	268205	200.0	196.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	6.244	6.256	-0.012	98	406848	20.0	19.8	
31 Vinyl acetate	43	6.268	6.268	0.000	98	236162	20.0	20.0	
32 cis-1,2-Dichloroethene	96	6.611	6.623	-0.012	83	152235	20.0	19.4	
33 2,2-Dichloropropane	77	6.765	6.765	0.000	92	197694	20.0	21.6	
34 Cyclohexane	84	6.859	6.871	-0.012	92	268412	20.0	19.8	
35 Chlorobromomethane	128	6.883	6.883	0.000	92	50059	20.0	20.1	
36 Chloroform	83	7.013	7.013	0.000	95	231138	20.0	19.2	
37 Carbon tetrachloride	117	7.167	7.167	0.000	98	186986	20.0	19.0	
38 Tetrahydrofuran	71	7.226	7.226	0.000	89	13971	40.0	40.2	
39 Ethyl acetate	45	7.238	7.238	0.000	97	20010	40.0	39.3	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.262	0.000	88	103379	20.0	20.1	
40 1,1,1-Trichloroethane	97	7.262	7.262	0.000	98	227442	20.0	20.0	
42 1,1-Dichloropropene	75	7.439	7.439	0.000	96	218664	20.0	19.5	
43 2-Butanone (MEK)	43	7.463	7.463	0.000	99	31915	20.0	19.9	
124 Isooctane	57	7.605	7.605	0.000	96	828034	20.0	19.7	
117 n-Heptane	43	7.758	7.759	-0.001	81	349542	20.0	20.2	
44 Benzene	78	7.758	7.770	-0.012	97	586334	20.0	19.0	
45 Propionitrile	54	7.829	7.830	-0.001	93	92768	200.0	194.7	
46 Methacrylonitrile	41	7.853	7.865	-0.012	93	442564	200.0	200.9	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	87	106952	20.0	19.7	
48 Tert-amyl methyl ether	73	7.960	7.972	-0.012	96	275178	20.0	19.7	
49 1,2-Dichloroethane	62	8.042	8.043	-0.001	97	136272	20.0	19.1	
50 Isobutyl alcohol	42	8.161	8.161	0.000	94	42938	500.0	476.3	
* 51 Fluorobenzene	96	8.315	8.327	-0.012	98	1316810	50.0	50.0	
52 Methylcyclohexane	55	8.504	8.504	0.000	94	289651	20.0	19.4	
53 Trichloroethene	95	8.528	8.528	0.000	97	144831	20.0	19.6	
54 n-Butanol	56	9.048	9.048	0.000	88	43239	500.0	480.2	
55 Dibromomethane	93	9.060	9.060	0.000	96	52047	20.0	20.0	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	97	148445	20.0	19.7	
123 Ethyl acrylate	55	9.285	9.285	0.000	79	104986	20.0	19.5	
57 Dichlorobromomethane	83	9.285	9.285	0.000	98	144415	20.0	19.4	
58 Methyl methacrylate	69	9.533	9.534	-0.001	95	102464	40.0	39.4	
59 1,4-Dioxane	88	9.557	9.557	0.000	1	11755	400.0	412.0	M
60 2-Chloroethyl vinyl ether	63	10.042	10.042	0.000	91	55031	20.0	19.3	
61 cis-1,3-Dichloropropene	75	10.078	10.090	-0.012	94	193588	20.0	19.7	
\$ 62 Toluene-d8 (Surr)	98	10.314	10.315	-0.001	93	511756	20.0	19.6	
63 Toluene	92	10.374	10.374	0.000	98	370031	20.0	19.1	
64 2-Nitropropane	43	10.669	10.681	-0.012	96	30711	40.0	38.4	
65 Tetrachloroethene	164	10.823	10.823	0.000	95	119132	20.0	19.2	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	94	67527	20.0	18.7	
67 trans-1,3-Dichloropropene	75	10.882	10.883	-0.001	95	146111	20.0	18.8	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	90	65774	20.0	19.0	
69 Ethyl methacrylate	69	11.095	11.096	-0.001	92	103096	20.0	18.7	
70 Chlorodibromomethane	129	11.249	11.249	0.000	91	80070	20.0	18.5	
71 1,3-Dichloropropane	76	11.368	11.368	0.000	94	147933	20.0	19.0	
72 Ethylene Dibromide	107	11.498	11.498	0.000	99	68859	20.0	18.6	
S 73 1,3-Dichloropropene, Total	75				0			38.5	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	124850	20.0	18.4	
74 2-Hexanone	43	11.782	11.782	0.000	97	48560	20.0	19.4	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	89	852730	50.0	50.0	
75 1-Chlorohexane	91	12.054	12.054	0.000	70	224600	20.0	19.9	
77 Chlorobenzene	112	12.054	12.054	0.000	97	342163	20.0	20.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
78 Ethylbenzene	91	12.089	12.089	0.000	98	712746	20.0	19.6	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	93	101412	20.0	18.8	
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	260575	20.0	19.0	
82 o-Xylene	106	12.669	12.669	0.000	97	246387	20.0	19.6	
83 Styrene	104	12.716	12.717	-0.001	96	371688	20.0	19.9	
84 Bromoform	173	12.728	12.728	0.000	95	33894	20.0	18.6	
85 Isopropylbenzene	105	12.965	12.965	0.000	96	690775	20.0	20.6	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	84	165926	20.0	19.7	
87 Bromobenzene	156	13.320	13.320	0.000	95	125115	20.0	20.1	
88 N-Propylbenzene	91	13.355	13.356	-0.001	98	795193	20.0	21.1	
89 1,1,2,2-Tetrachloroethane	83	13.426	13.427	-0.001	95	77607	20.0	19.8	
90 2-Chlorotoluene	91	13.497	13.498	-0.001	96	445520	20.0	20.1	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	95	527450	20.0	20.5	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	80	22033	20.0	19.4	
93 trans-1,4-Dichloro-2-buten	53	13.592	13.592	0.000	83	23661	20.0	18.2	
94 Cyclohexanone	55	13.592	13.592	0.000	75	19460	200.0	175.2	
95 4-Chlorotoluene	91	13.651	13.651	0.000	98	441301	20.0	20.2	
96 tert-Butylbenzene	119	13.829	13.829	0.000	93	467366	20.0	20.5	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	514143	20.0	20.4	
98 sec-Butylbenzene	105	13.983	13.983	0.000	94	717570	20.0	20.8	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	568776	20.0	20.7	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	97	243171	20.0	20.0	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	96	344226	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	95	224885	20.0	19.9	
119 1,2,3-Trimethylbenzene	105	14.278	14.279	-0.001	98	461435	20.0	20.2	
120 Benzyl chloride	126	14.480	14.480	0.000	90	26776	20.0	19.5	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	142946	20.0	20.8	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	96	205738	20.0	19.9	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	86	10076	20.0	17.2	
106 n-Nonyl Aldehyde	57	15.343	15.344	-0.001	53	47587	20.0	17.3	
107 1,3,5-Trichlorobenzene	180	15.343	15.344	-0.001	97	176007	20.0	20.4	
108 Hexachlorobutadiene	225	15.864	15.864	0.000	97	89385	20.0	20.3	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	93	140910	20.0	19.9	
110 Naphthalene	128	16.172	16.172	0.000	97	230501	20.0	19.1	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	95	113634	20.0	19.9	
S 112 Xylenes, Total	106				0			38.5	
S 113 Trihalomethanes, Total	1				0			75.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 Surr 25_00067

Amount Added: 4.00

Units: uL

8260 NewWkMix_00192

Amount Added: 4.00

Units: uL

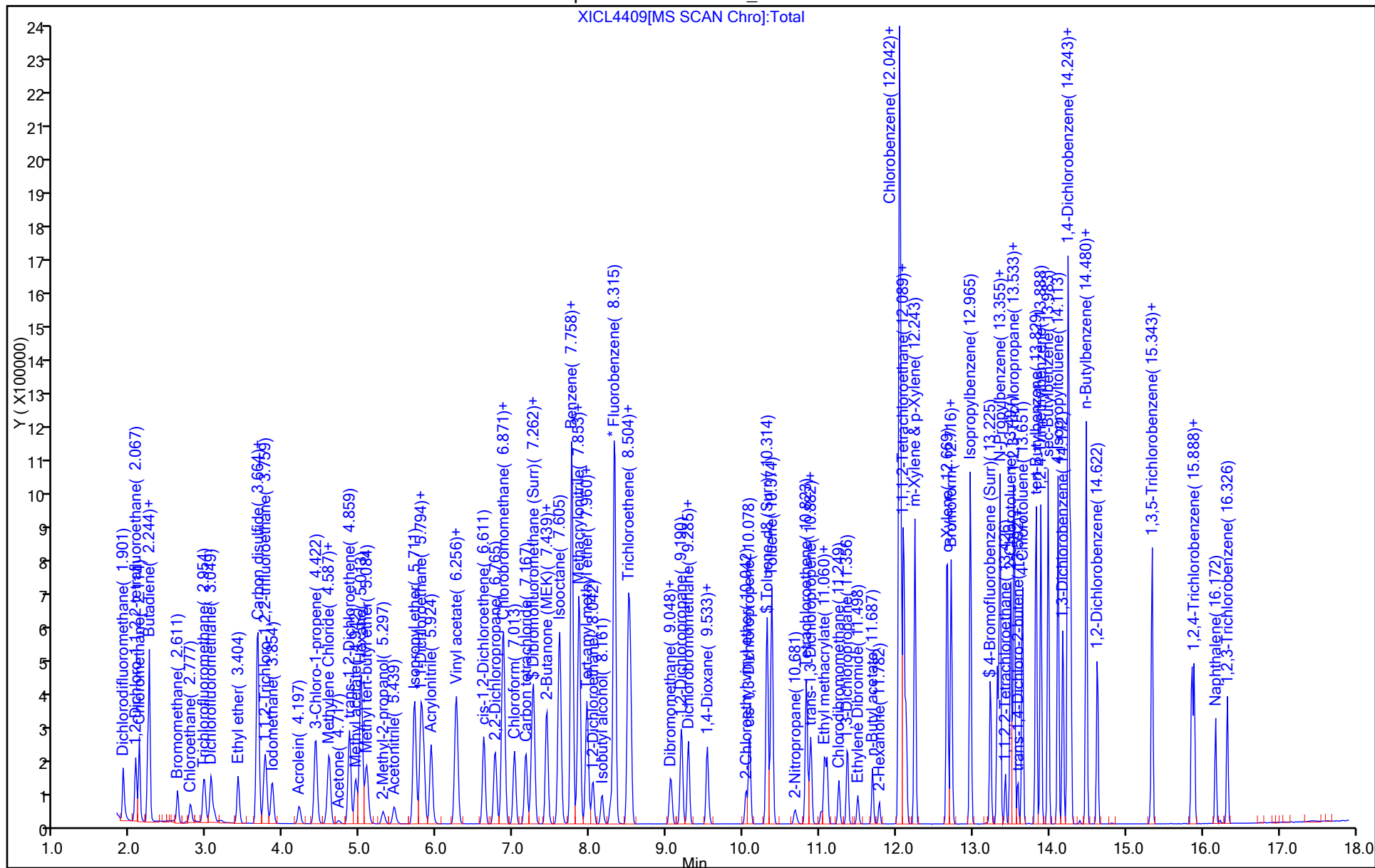
I.S. Working_00140

Amount Added: 10.00

Units: uL

Run Reagent

Limit Group: MSV-8260 DoD



TestAmerica St. Louis

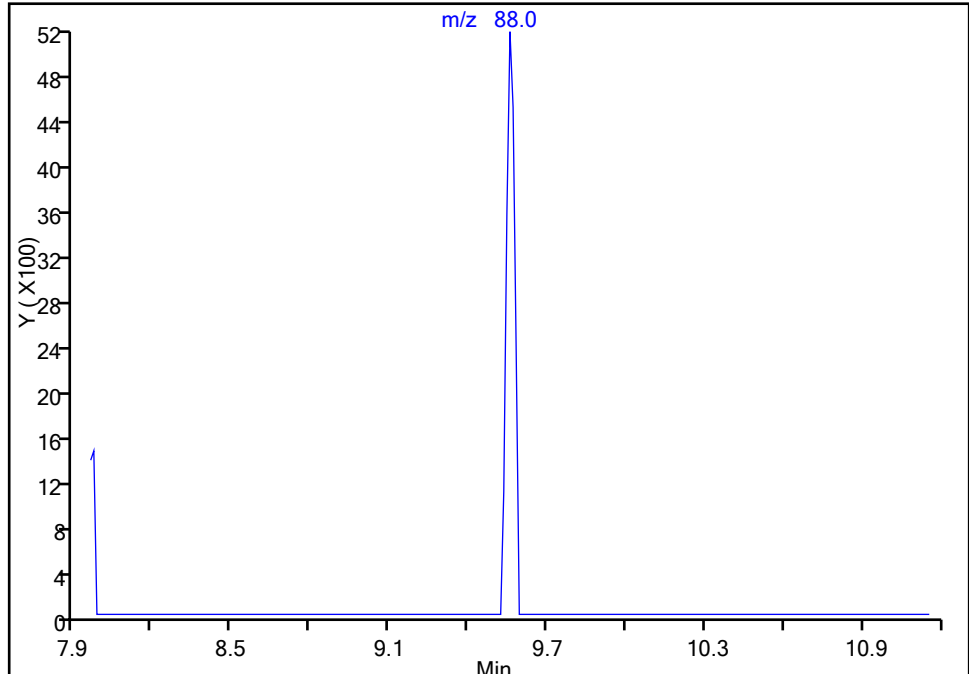
Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4409.D
Injection Date: 18-Nov-2016 14:07:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: ADB ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

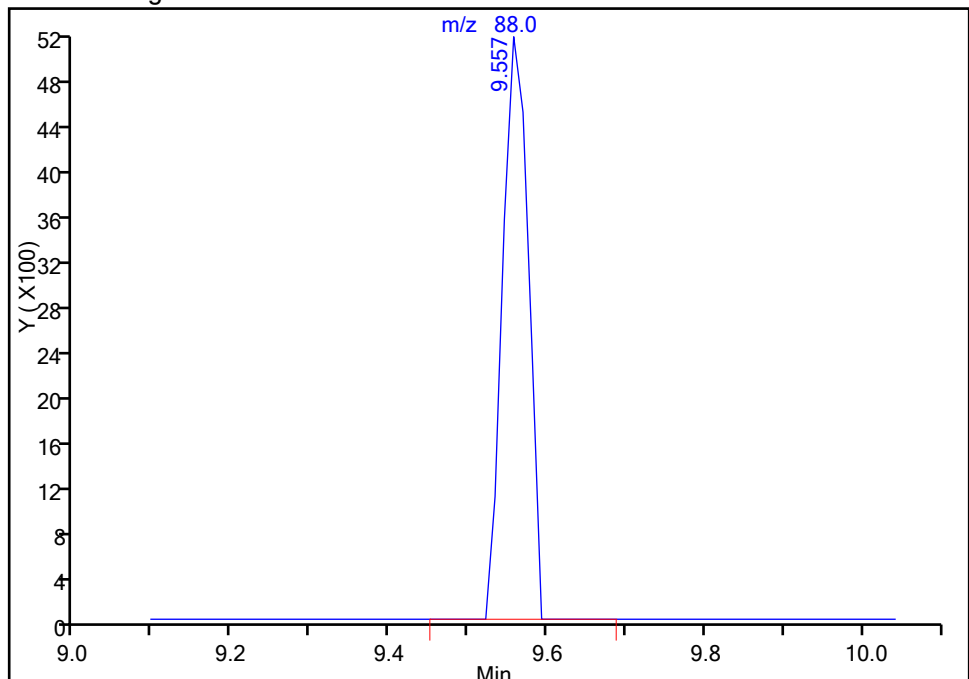
Not Detected
Expected RT: 9.56

Processing Integration Results



RT: 9.56
Area: 11755
Amount: 412.0343
Amount Units: ug/l

Manual Integration Results



Reviewer: buettnera, 21-Nov-2016 08:46:13

Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica St. Louis

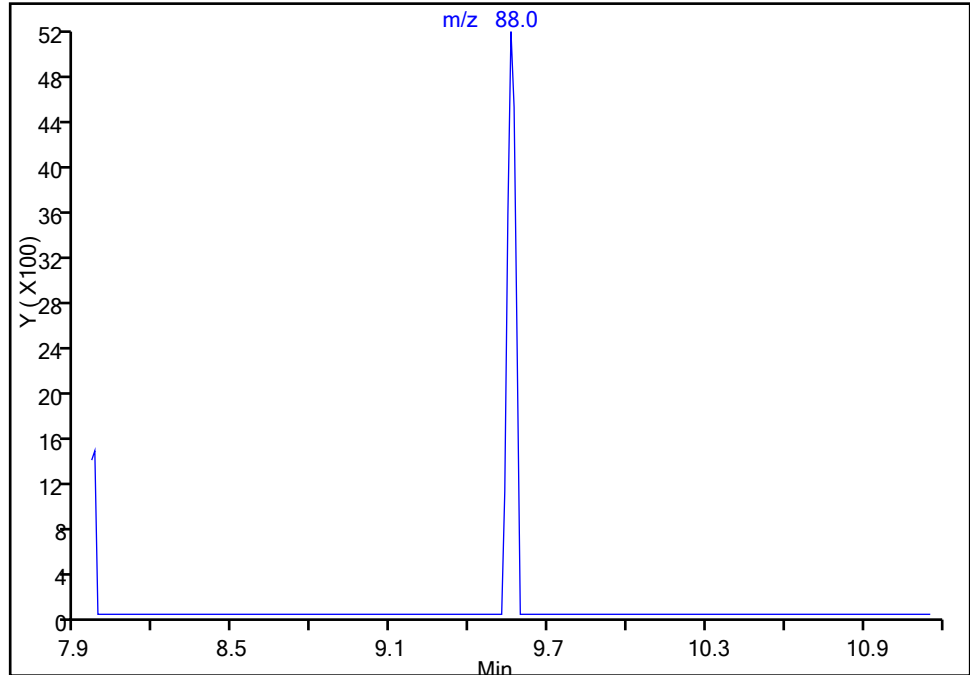
Data File:	\\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4409.D		
Injection Date:	18-Nov-2016 14:07:30	Instrument ID:	VMSX
Lims ID:	IC		
Client ID:			
Operator ID:	ADB	ALS Bottle#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD
Column:		Detector:	MS SCAN
		Worklist Smp#:	9

59 1,4-Dioxane, CAS: 123-91-1

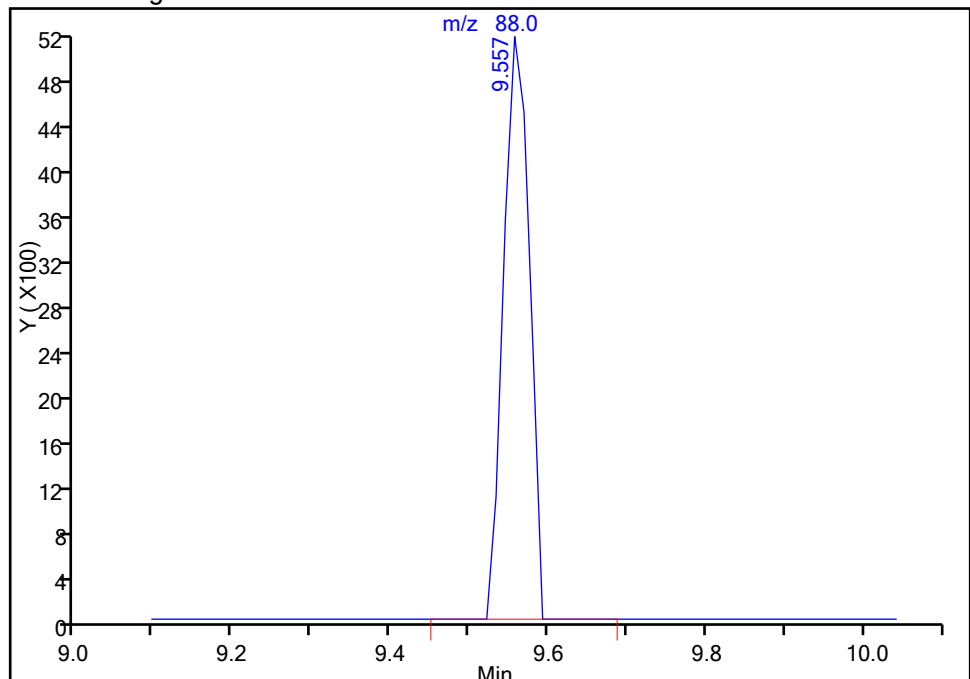
Signal: 1

Not Detected
Expected RT: 9.56

Processing Integration Results



Manual Integration Results



RT: 9.56
Area: 11755
Amount: 412.0343
Amount Units: ug/l

Reviewer: buettnera, 21-Nov-2016 08:46:13

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4410.D
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 18-Nov-2016 14:31:30 ALS Bottle#: 7 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS
 Misc. Info.: 10
 Operator ID: ADB Instrument ID: VMSX
 Sublist: chrom-5mL-8260-MSX*sub15
 Method: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Nov-2016 09:41:24 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN

Process Host: XAWRK037

First Level Reviewer: buettnera

Date: 23-Nov-2016 09:40:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.913	1.913	0.000	99	564704	50.0	53.4	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.067	2.067	0.000	99	293977	50.0	54.2	
3 Chloromethane	50	2.114	2.114	0.000	99	717761	50.0	50.1	
4 Vinyl chloride	62	2.221	2.221	0.000	98	558786	50.0	50.4	
121 Butadiene	39	2.245	2.245	0.000	88	502711	50.0	49.7	
5 Bromomethane	94	2.623	2.623	0.000	92	168009	50.0	49.0	
6 Chloroethane	64	2.789	2.789	0.000	98	175179	50.0	46.0	
7 Trichlorofluoromethane	101	2.966	2.966	0.000	99	459833	50.0	49.3	
122 Dichlorofluoromethane	67	3.061	3.061	0.000	97	510217	50.0	48.3	
8 Ethyl ether	74	3.404	3.404	0.000	95	192549	50.0	48.5	
11 Ethanol	45	3.653	3.653	0.000	29	92454	2000.0	1995.2	
9 1,1-Dichloroethene	96	3.664	3.664	0.000	92	447703	50.0	49.8	
10 Carbon disulfide	76	3.664	3.664	0.000	100	1569630	50.0	50.5	
12 1,1,2-Trichloro-1,2,2-trif	151	3.771	3.771	0.000	95	339030	50.0	49.4	
13 Iodomethane	142	3.854	3.854	0.000	99	602031	50.0	49.9	
14 Acrolein	56	4.209	4.209	0.000	100	206388	250.0	247.3	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	92	549260	50.0	50.0	
16 Isopropyl alcohol	45	4.564	4.564	0.000	99	119236	500.0	494.7	
17 Methylene Chloride	84	4.599	4.599	0.000	99	381053	50.0	48.7	
18 Acetone	43	4.718	4.718	0.000	99	53395	50.0	48.2	
19 trans-1,2-Dichloroethene	96	4.860	4.860	0.000	94	459124	50.0	49.1	
20 Methyl acetate	74	4.942	4.942	0.000	99	147293	250.0	245.5	
21 Hexane	86	5.013	5.013	0.000	85	163228	50.0	49.4	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	93	747035	50.0	47.7	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	99	195010	500.0	489.8	
24 Acetonitrile	41	5.439	5.439	0.000	100	244506	500.0	484.8	
25 Isopropyl ether	45	5.712	5.712	0.000	96	1442988	50.0	48.9	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	93	913490	50.0	50.2	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	96	851807	50.0	48.8	
29 Acrylonitrile	53	5.925	5.925	0.000	99	772335	500.0	481.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	6.256	6.256	0.000	99	1175090	50.0	48.7	
31 Vinyl acetate	43	6.268	6.268	0.000	97	678609	50.0	49.0	
32 cis-1,2-Dichloroethene	96	6.623	6.623	0.000	83	446434	50.0	48.5	
33 2,2-Dichloropropane	77	6.765	6.765	0.000	92	534835	50.0	49.8	
34 Cyclohexane	84	6.871	6.871	0.000	92	786572	50.0	49.4	
35 Chlorobromomethane	128	6.883	6.883	0.000	91	143572	50.0	49.2	
36 Chloroform	83	7.013	7.013	0.000	95	679131	50.0	48.2	
37 Carbon tetrachloride	117	7.167	7.167	0.000	98	578781	50.0	50.1	
38 Tetrahydrofuran	71	7.226	7.226	0.000	92	42288	100.0	103.8	
39 Ethyl acetate	45	7.238	7.238	0.000	97	59963	100.0	100.5	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.262	0.000	92	300816	50.0	49.9	
40 1,1,1-Trichloroethane	97	7.262	7.262	0.000	98	663717	50.0	49.7	
42 1,1-Dichloropropene	75	7.439	7.439	0.000	96	653549	50.0	49.8	
43 2-Butanone (MEK)	43	7.463	7.463	0.000	100	94373	50.0	50.1	
124 Isooctane	57	7.605	7.605	0.000	95	2449080	50.0	49.6	
117 n-Heptane	43	7.759	7.759	0.000	83	996507	50.0	49.2	
44 Benzene	78	7.770	7.770	0.000	97	1679709	50.0	46.4	
45 Propionitrile	54	7.830	7.830	0.000	97	270186	500.0	483.7	
46 Methacrylonitrile	41	7.865	7.865	0.000	93	1239789	500.0	480.1	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	86	313988	50.0	49.2	
48 Tert-amyl methyl ether	73	7.972	7.972	0.000	96	790312	50.0	48.3	
49 1,2-Dichloroethane	62	8.043	8.043	0.000	96	402723	50.0	48.2	
50 Isobutyl alcohol	42	8.161	8.161	0.000	95	134424	1250.0	1271.8	
* 51 Fluorobenzene	96	8.327	8.327	0.000	98	1543811	50.0	50.0	
52 Methylcyclohexane	55	8.504	8.504	0.000	94	877705	50.0	50.2	
53 Trichloroethene	95	8.528	8.528	0.000	98	428332	50.0	49.6	
54 n-Butanol	56	9.048	9.048	0.000	84	141767	1250.0	1199.2	
55 Dibromomethane	93	9.060	9.060	0.000	97	147325	50.0	48.3	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	97	438607	50.0	49.5	
123 Ethyl acrylate	55	9.285	9.285	0.000	98	309514	50.0	49.1	
57 Dichlorobromomethane	83	9.285	9.285	0.000	99	430136	50.0	49.4	
58 Methyl methacrylate	69	9.534	9.534	0.000	95	298280	100.0	97.9	
59 1,4-Dioxane	88	9.557	9.557	0.000	85	34226	1000.0	969.2	
60 2-Chloroethyl vinyl ether	63	10.042	10.042	0.000	91	169300	50.0	50.5	
61 cis-1,3-Dichloropropene	75	10.090	10.090	0.000	94	574573	50.0	49.9	
\$ 62 Toluene-d8 (Surr)	98	10.315	10.315	0.000	94	1480229	50.0	50.1	
63 Toluene	92	10.374	10.374	0.000	98	1040784	50.0	47.5	
64 2-Nitropropane	43	10.681	10.681	0.000	98	97495	100.0	94.2	
65 Tetrachloroethene	164	10.823	10.823	0.000	95	347586	50.0	49.5	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	94	205278	50.0	50.1	
67 trans-1,3-Dichloropropene	75	10.883	10.883	0.000	95	435696	50.0	49.5	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	90	190589	50.0	48.5	
69 Ethyl methacrylate	69	11.096	11.096	0.000	92	305637	50.0	49.0	
70 Chlorodibromomethane	129	11.249	11.249	0.000	91	243340	50.0	49.6	
71 1,3-Dichloropropane	76	11.368	11.368	0.000	94	428767	50.0	48.6	
72 Ethylene Dibromide	107	11.498	11.498	0.000	98	205298	50.0	48.9	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	375785	50.0	48.9	
74 2-Hexanone	43	11.782	11.782	0.000	95	138784	50.0	48.9	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	89	966582	50.0	50.0	
75 1-Chlorohexane	91	12.054	12.054	0.000	86	639979	50.0	50.0	
77 Chlorobenzene	112	12.054	12.054	0.000	96	948388	50.0	49.1	
78 Ethylbenzene	91	12.089	12.089	0.000	96	2040608	50.0	49.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	94	296671	50.0	48.6	
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	764627	50.0	49.2	
82 o-Xylene	106	12.669	12.669	0.000	97	709131	50.0	49.6	
83 Styrene	104	12.717	12.717	0.000	96	1052299	50.0	49.6	
84 Bromoform	173	12.728	12.728	0.000	96	105661	50.0	51.4	
85 Isopropylbenzene	105	12.965	12.965	0.000	97	1924775	50.0	50.9	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	84	477841	50.0	50.2	
87 Bromobenzene	156	13.320	13.320	0.000	97	349537	50.0	49.8	
88 N-Propylbenzene	91	13.356	13.356	0.000	98	2183451	50.0	51.3	
89 1,1,2,2-Tetrachloroethane	83	13.427	13.427	0.000	95	216581	50.0	48.9	
90 2-Chlorotoluene	91	13.498	13.498	0.000	96	1246905	50.0	49.8	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	95	1469451	50.0	50.6	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	80	64093	50.0	50.0	
93 trans-1,4-Dichloro-2-buten	53	13.592	13.592	0.000	86	72661	50.0	49.5	
94 Cyclohexanone	55	13.592	13.592	0.000	76	61149	500.0	487.3	
95 4-Chlorotoluene	91	13.651	13.651	0.000	99	1238463	50.0	50.1	
96 tert-Butylbenzene	119	13.829	13.829	0.000	93	1305632	50.0	50.8	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	1432551	50.0	50.4	
98 sec-Butylbenzene	105	13.983	13.983	0.000	95	1992656	50.0	51.2	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	1607481	50.0	51.7	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	98	675272	50.0	49.1	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	388971	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	93	637185	50.0	49.8	
119 1,2,3-Trimethylbenzene	105	14.279	14.279	0.000	98	1309748	50.0	50.7	
120 Benzyl chloride	126	14.480	14.480	0.000	90	80673	50.0	52.1	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	409737	50.0	52.7	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	97	582060	50.0	49.8	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	85	32808	50.0	49.7	
106 n-Nonyl Aldehyde	57	15.344	15.344	0.000	56	155897	50.0	44.5	
107 1,3,5-Trichlorobenzene	180	15.344	15.344	0.000	96	502101	50.0	51.5	
108 Hexachlorobutadiene	225	15.864	15.864	0.000	97	263508	50.0	53.0	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	93	403723	50.0	50.5	
110 Naphthalene	128	16.172	16.172	0.000	97	669727	50.0	49.0	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	95	322064	50.0	50.0	

Reagents:

8260 Surr 25_00067

Amount Added: 10.00

Units: uL

8260 NewWkMix_00192

Amount Added: 10.00

Units: uL

I.S. Working_00140

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\\StLouis\\ChromData\\VMSX\\20161118-9113.b\\XICL4410.D

Injection Date: 18-Nov-2016 14:31:30

Instrument ID: VMSX

Operator ID: ADB

Lims ID: ICIS

Worklist Smp#: 10

Client ID:

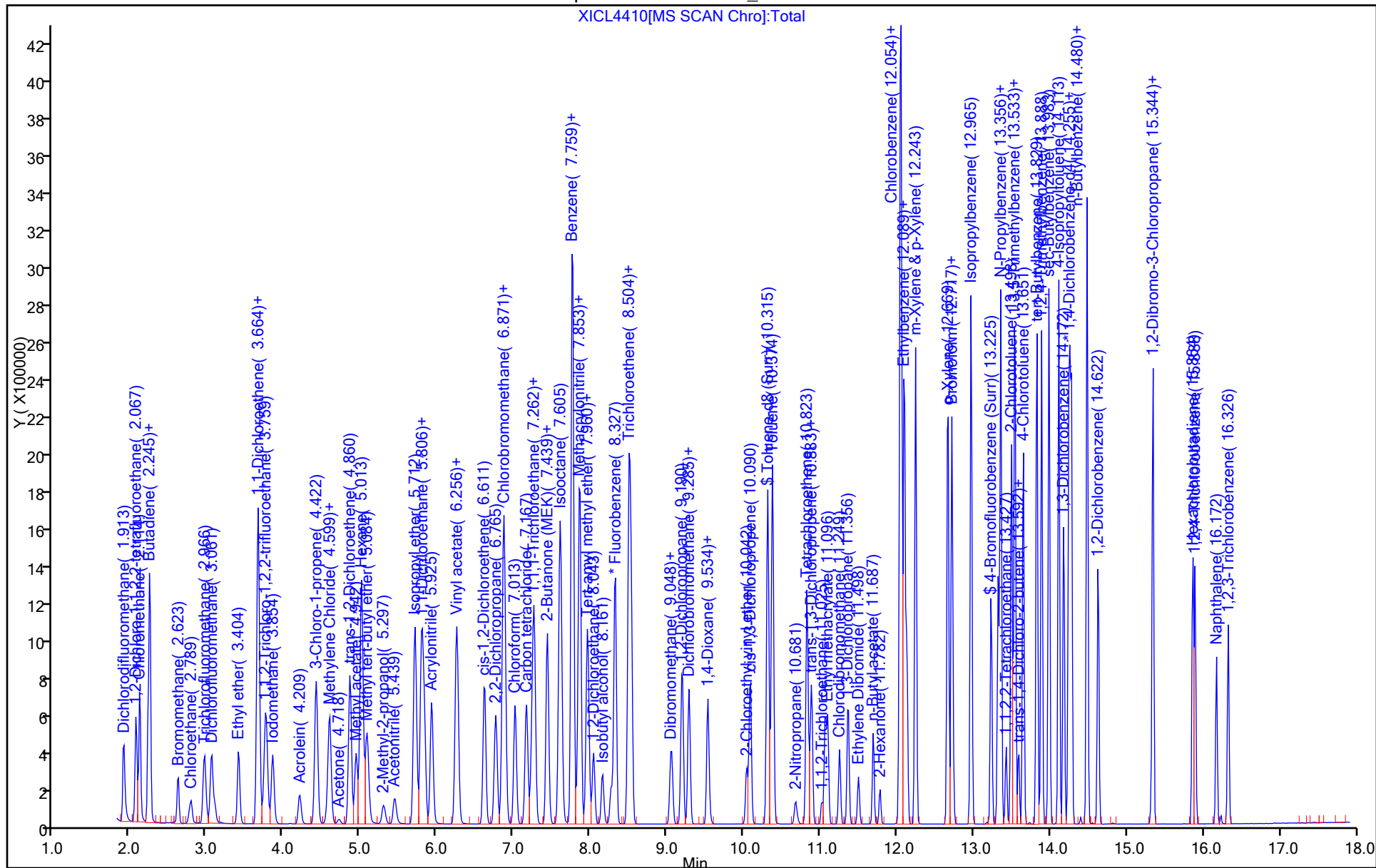
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4411.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 18-Nov-2016 14:55:30 ALS Bottle#: 8 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 20
 Operator ID: ADB Instrument ID: VMSX
 Sublist: chrom-5mL-8260-MSX*sub15
 Method: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Nov-2016 09:41:27 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN

Process Host: XAWRK037

First Level Reviewer: buettnera

Date: 21-Nov-2016 08:44:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.901	1.913	-0.012	99	981880	100.0	91.7	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.067	2.067	0.000	99	526787	100.0	95.9	
3 Chloromethane	50	2.114	2.114	0.000	99	1398835	100.0	96.4	
4 Vinyl chloride	62	2.221	2.221	0.000	98	1071577	100.0	95.4	
121 Butadiene	39	2.245	2.245	0.000	87	931378	100.0	90.9	
5 Bromomethane	94	2.611	2.623	-0.012	92	340195	100.0	98.1	
6 Chloroethane	64	2.789	2.789	0.000	99	341956	100.0	88.6	
7 Trichlorofluoromethane	101	2.954	2.966	-0.012	99	928807	100.0	98.4	
122 Dichlorofluoromethane	67	3.049	3.061	-0.012	97	1041477	100.0	97.3	
8 Ethyl ether	74	3.404	3.404	0.000	95	403374	100.0	100.3	
11 Ethanol	45	3.653	3.653	0.000	30	191933	4000.0	4090.0	
9 1,1-Dichloroethene	96	3.653	3.664	-0.011	92	889477	100.0	97.8	
10 Carbon disulfide	76	3.664	3.664	0.000	100	3040736	100.0	96.7	
12 1,1,2-Trichloro-1,2,2-trif	151	3.759	3.771	-0.012	95	677822	100.0	97.6	
13 Iodomethane	142	3.854	3.854	0.000	99	1189544	100.0	97.3	
14 Acrolein	56	4.197	4.209	-0.012	100	423000	500.0	500.4	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	93	1104443	100.0	99.3	
16 Isopropyl alcohol	45	4.552	4.564	-0.012	99	256285	1000.0	1050.0	
17 Methylene Chloride	84	4.587	4.599	-0.012	99	768917	100.0	97.1	
18 Acetone	43	4.718	4.718	0.000	99	108504	100.0	99.8	
19 trans-1,2-Dichloroethene	96	4.860	4.860	0.000	94	922427	100.0	97.4	
20 Methyl acetate	74	4.942	4.942	0.000	99	308884	500.0	508.4	
21 Hexane	86	5.013	5.013	0.000	85	322494	100.0	96.3	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	96	1554596	100.0	98.1	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	100	428628	1000.0	1063.1	
24 Acetonitrile	41	5.439	5.439	0.000	99	523185	1000.0	1024.3	
25 Isopropyl ether	45	5.712	5.712	0.000	96	2970284	100.0	99.5	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	93	1814584	100.0	98.6	
S 26 1,2-Dichloroethene, Total	96				0			195.0	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	97	1708122	100.0	96.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.925	5.925	0.000	99	1634083	1000.0	1006.5	
30 Tert-butyl ethyl ether	59	6.244	6.256	-0.012	99	2450745	100.0	100.4	
31 Vinyl acetate	43	6.268	6.268	0.000	97	1420216	100.0	101.4	
32 cis-1,2-Dichloroethene	96	6.611	6.623	-0.012	83	911292	100.0	97.7	
33 2,2-Dichloropropane	77	6.765	6.765	0.000	91	1013181	100.0	93.1	
34 Cyclohexane	84	6.859	6.871	-0.012	92	1568783	100.0	97.3	
35 Chlorobromomethane	128	6.883	6.883	0.000	91	287243	100.0	97.1	
36 Chloroform	83	7.013	7.013	0.000	94	1395272	100.0	97.7	
37 Carbon tetrachloride	117	7.167	7.167	0.000	98	1193854	100.0	102.1	
38 Tetrahydrofuran	71	7.226	7.226	0.000	95	90712	200.0	219.8	
39 Ethyl acetate	45	7.238	7.238	0.000	98	129170	200.0	213.7	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.262	0.000	92	588374	100.0	96.3	
40 1,1,1-Trichloroethane	97	7.262	7.262	0.000	97	1317638	100.0	97.3	
42 1,1-Dichloropropene	75	7.439	7.439	0.000	96	1327392	100.0	99.9	
43 2-Butanone (MEK)	43	7.463	7.463	0.000	100	189338	100.0	99.2	
124 Isooctane	57	7.605	7.605	0.000	95	4856413	100.0	97.1	
117 n-Heptane	43	7.759	7.759	0.000	81	1988533	100.0	97.0	
44 Benzene	78	7.770	7.770	0.000	97	3314071	100.0	90.3	
45 Propionitrile	54	7.830	7.830	0.000	94	580087	1000.0	1025.4	
46 Methacrylonitrile	41	7.853	7.865	-0.012	93	2560840	1000.0	979.2	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	86	628512	100.0	97.3	
48 Tert-amyl methyl ether	73	7.960	7.972	-0.012	96	1655858	100.0	99.9	
49 1,2-Dichloroethane	62	8.043	8.043	0.000	96	834506	100.0	98.6	
50 Isobutyl alcohol	42	8.149	8.161	-0.012	96	296292	2500.0	2768.0	
* 51 Fluorobenzene	96	8.327	8.327	0.000	98	1563461	50.0	50.0	
52 Methylcyclohexane	55	8.504	8.504	0.000	94	1771074	100.0	100.0	
53 Trichloroethene	95	8.528	8.528	0.000	97	861339	100.0	98.4	
54 n-Butanol	56	9.037	9.048	-0.011	85	319113	2500.0	2541.8	
55 Dibromomethane	93	9.060	9.060	0.000	96	314961	100.0	101.9	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	97	906678	100.0	101.1	
123 Ethyl acrylate	55	9.285	9.285	0.000	98	671346	100.0	105.2	
57 Dichlorobromomethane	83	9.285	9.285	0.000	99	902077	100.0	102.3	
58 Methyl methacrylate	69	9.534	9.534	0.000	95	648824	200.0	210.2	
59 1,4-Dioxane	88	9.557	9.557	0.000	86	75234	2000.0	2060.9	
60 2-Chloroethyl vinyl ether	63	10.042	10.042	0.000	90	372220	100.0	109.7	
61 cis-1,3-Dichloropropene	75	10.090	10.090	0.000	94	1200903	100.0	103.1	
\$ 62 Toluene-d8 (Surr)	98	10.315	10.315	0.000	94	2858383	100.0	96.6	
63 Toluene	92	10.374	10.374	0.000	98	2099168	100.0	95.6	
64 2-Nitropropane	43	10.670	10.681	-0.011	96	235801	200.0	203.9	
65 Tetrachloroethene	164	10.823	10.823	0.000	95	698698	100.0	99.4	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	94	418218	100.0	102.0	
67 trans-1,3-Dichloropropene	75	10.883	10.883	0.000	95	912960	100.0	103.5	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	90	398918	100.0	101.4	
69 Ethyl methacrylate	69	11.096	11.096	0.000	86	661097	100.0	105.8	
70 Chlorodibromomethane	129	11.249	11.249	0.000	91	527136	100.0	107.3	
71 1,3-Dichloropropane	76	11.368	11.368	0.000	94	886366	100.0	100.4	
72 Ethylene Dibromide	107	11.498	11.498	0.000	99	436275	100.0	103.7	
S 73 1,3-Dichloropropene, Total	75				0			206.6	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	823032	100.0	107.0	
74 2-Hexanone	43	11.782	11.782	0.000	95	296556	100.0	104.4	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	89	967789	50.0	50.0	
75 1-Chlorohexane	91	12.054	12.054	0.000	86	1270324	100.0	99.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.054	12.054	0.000	95	1872458	100.0	96.8	
78 Ethylbenzene	91	12.089	12.089	0.000	96	4027802	100.0	97.4	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	94	626108	100.0	102.4	
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	1536128	100.0	98.7	
82 o-Xylene	106	12.669	12.669	0.000	97	1427819	100.0	99.8	
83 Styrene	104	12.717	12.717	0.000	95	2126212	100.0	100.1	
84 Bromoform	173	12.728	12.728	0.000	96	229368	100.0	106.8	
85 Isopropylbenzene	105	12.965	12.965	0.000	98	3746390	100.0	94.8	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	84	962741	100.0	96.8	
87 Bromobenzene	156	13.320	13.320	0.000	97	715332	100.0	97.6	
88 N-Propylbenzene	91	13.356	13.356	0.000	97	4238836	100.0	95.3	
89 1,1,2,2-Tetrachloroethane	83	13.427	13.427	0.000	95	462574	100.0	100.0	
90 2-Chlorotoluene	91	13.498	13.498	0.000	96	2545315	100.0	97.3	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	95	2950415	100.0	97.4	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	79	131424	100.0	98.1	
93 trans-1,4-Dichloro-2-buten	53	13.580	13.592	-0.012	87	161412	100.0	105.3	
94 Cyclohexanone	55	13.592	13.592	0.000	77	139490	1000.0	1064.2	
95 4-Chlorotoluene	91	13.651	13.651	0.000	99	2529368	100.0	98.0	
96 tert-Butylbenzene	119	13.829	13.829	0.000	93	2618009	100.0	97.4	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	2893200	100.0	97.4	
98 sec-Butylbenzene	105	13.983	13.983	0.000	96	3939956	100.0	96.8	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	96	3206633	100.0	98.6	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	97	1389719	100.0	96.8	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	95	406298	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	92	1306707	100.0	97.8	
119 1,2,3-Trimethylbenzene	105	14.279	14.279	0.000	99	2626225	100.0	97.4	
120 Benzyl chloride	126	14.480	14.480	0.000	90	175865	100.0	108.7	
103 n-Butylbenzene	134	14.480	14.480	0.000	98	823908	100.0	101.4	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	96	1200695	100.0	98.4	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	86	75412	100.0	109.4	
106 n-Nonyl Aldehyde	57	15.344	15.344	0.000	59	358417	100.0	94.4	
107 1,3,5-Trichlorobenzene	180	15.344	15.344	0.000	96	997833	100.0	98.0	
108 Hexachlorobutadiene	225	15.864	15.864	0.000	98	535242	100.0	103.0	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	93	823208	100.0	98.5	
110 Naphthalene	128	16.172	16.172	0.000	97	1476926	100.0	103.5	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	96	672034	100.0	99.8	
S 112 Xylenes, Total	106				0			198.5	
S 113 Trihalomethanes, Total	1				0			414.2	

Reagents:

8260NewHiWrk_00170

Amount Added: 4.00

Units: uL

8260 Surr 25_00067

Amount Added: 20.00

Units: uL

I.S. Working_00140

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\\StLouis\\ChromData\\VMSX\\20161118-9113.b\\XICL4411.D

Injection Date: 18-Nov-2016 14:55:30

Instrument ID: VMSX

Operator ID: ADB

Lims ID: IC

Worklist Smp#: 11

Client ID:

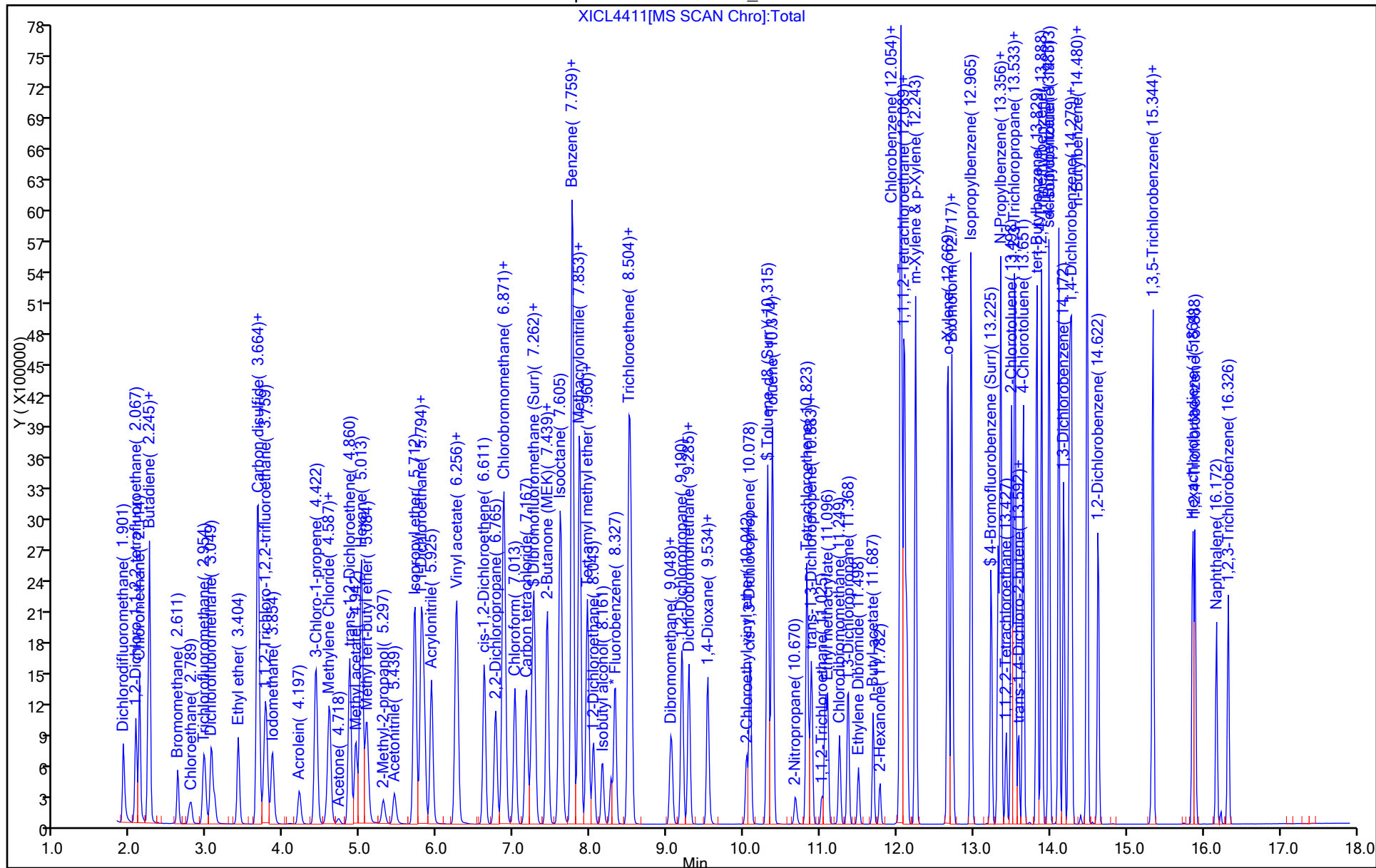
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 18-Nov-2016 15:20:30 ALS Bottle#: 9 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 40
 Operator ID: ADB Instrument ID: VMSX
 Sublist: chrom-5mL-8260-MSX*sub15
 Method: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Nov-2016 09:41:29 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN

Process Host: XAWRK037

First Level Reviewer: buettnera

Date: 21-Nov-2016 08:45:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.913	1.913	0.000	99	1853083	200.0	182.3	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.067	2.067	0.000	99	968668	200.0	185.7	
3 Chloromethane	50	2.114	2.114	0.000	99	2538549	200.0	184.4	
4 Vinyl chloride	62	2.233	2.221	0.012	98	1941195	200.0	182.0	
121 Butadiene	39	2.244	2.245	0.000	87	1702666	200.0	175.0	
5 Bromomethane	94	2.623	2.623	0.000	92	687335	200.0	208.7	
6 Chloroethane	64	2.789	2.789	0.000	99	764197	200.0	208.5	
7 Trichlorofluoromethane	101	2.966	2.966	0.000	99	1843143	200.0	205.6	
122 Dichlorofluoromethane	67	3.061	3.061	0.000	97	2053790	200.0	202.1	
8 Ethyl ether	74	3.404	3.404	0.000	95	766121	200.0	200.7	
11 Ethanol	45	3.653	3.653	0.000	95	353143	8000.0	7927.5	
9 1,1-Dichloroethene	96	3.664	3.664	0.000	93	1645113	200.0	190.5	
10 Carbon disulfide	76	3.664	3.664	0.000	100	5470502	200.0	183.3	
12 1,1,2-Trichloro-1,2,2-trif	151	3.759	3.771	-0.012	95	1276207	200.0	193.6	
13 Iodomethane	142	3.854	3.854	0.000	99	2244880	200.0	193.5	
14 Acrolein	56	4.209	4.209	0.000	100	803856	1000.0	1001.8	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	93	2057717	200.0	194.9	
16 Isopropyl alcohol	45	4.552	4.564	-0.012	99	479597	2000.0	2070.0	
17 Methylene Chloride	84	4.599	4.599	0.000	99	1464387	200.0	194.8	
18 Acetone	43	4.718	4.718	0.000	99	205058	200.0	201.5	
19 trans-1,2-Dichloroethene	96	4.860	4.860	0.000	94	1728063	200.0	192.1	
20 Methyl acetate	74	4.942	4.942	0.000	99	589193	1000.0	1021.6	
21 Hexane	86	5.013	5.013	0.000	84	608145	200.0	191.3	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	95	2969016	200.0	197.3	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	100	812070	2000.0	2121.7	
24 Acetonitrile	41	5.439	5.439	0.000	99	976934	2000.0	2014.9	
25 Isopropyl ether	45	5.711	5.712	-0.001	95	5529121	200.0	195.1	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	93	3380049	200.0	193.4	
S 26 1,2-Dichloroethene, Total	96				0			386.3	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	97	3219100	200.0	191.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.924	5.925	-0.001	99	3093437	2000.0	2007.2	
30 Tert-butyl ethyl ether	59	6.244	6.256	-0.012	98	4589990	200.0	198.1	
31 Vinyl acetate	43	6.268	6.268	0.000	97	2597275	200.0	195.3	
32 cis-1,2-Dichloroethene	96	6.623	6.623	0.000	83	1720161	200.0	194.2	
33 2,2-Dichloropropane	77	6.765	6.765	0.000	91	1823995	200.0	176.6	
34 Cyclohexane	84	6.871	6.871	0.000	92	2872707	200.0	187.7	
35 Chlorobromomethane	128	6.883	6.883	0.000	90	537632	200.0	191.5	
36 Chloroform	83	7.013	7.013	0.000	94	2641981	200.0	195.0	
37 Carbon tetrachloride	117	7.167	7.167	0.000	98	2258788	200.0	203.5	
38 Tetrahydrofuran	71	7.226	7.226	0.000	94	170741	400.0	435.8	
39 Ethyl acetate	45	7.238	7.238	0.000	96	244075	400.0	425.4	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.262	0.000	92	1145550	200.0	197.6	
40 1,1,1-Trichloroethane	97	7.273	7.262	0.011	98	2436757	200.0	189.6	
42 1,1-Dichloropropene	75	7.439	7.439	0.000	96	2468382	200.0	195.7	
43 2-Butanone (MEK)	43	7.463	7.463	0.000	99	358546	200.0	197.9	
124 Isooctane	57	7.617	7.605	0.012	95	8776407	200.0	184.9	
117 n-Heptane	43	7.759	7.759	0.000	83	3480909	200.0	178.9	
44 Benzene	78	7.770	7.770	0.000	98	5895011	200.0	169.3	
45 Propionitrile	54	7.830	7.830	0.000	1	1082256	2000.0	2015.3	
46 Methacrylonitrile	41	7.865	7.865	0.000	92	4579898	2000.0	1844.8	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	87	1235339	200.0	201.4	
48 Tert-amyl methyl ether	73	7.972	7.972	0.000	96	3081547	200.0	195.8	
49 1,2-Dichloroethane	62	8.043	8.043	0.000	97	1596323	200.0	198.8	
50 Isobutyl alcohol	42	8.161	8.161	0.000	95	559708	5000.0	5508.4	
* 51 Fluorobenzene	96	8.327	8.327	0.000	98	1484138	50.0	50.0	
52 Methylcyclohexane	55	8.504	8.504	0.000	95	3188827	200.0	189.7	
53 Trichloroethene	95	8.528	8.528	0.000	97	1574621	200.0	189.5	
54 n-Butanol	56	9.037	9.048	-0.011	85	617722	5000.0	4993.2	
55 Dibromomethane	93	9.060	9.060	0.000	95	598737	200.0	204.0	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	97	1698240	200.0	199.5	
123 Ethyl acrylate	55	9.285	9.285	0.000	98	1268693	200.0	209.5	
57 Dichlorobromomethane	83	9.285	9.285	0.000	99	1719309	200.0	205.4	
58 Methyl methacrylate	69	9.534	9.534	0.000	95	1206703	400.0	411.9	
59 1,4-Dioxane	88	9.557	9.557	0.000	84	138391	4000.0	3959.4	
60 2-Chloroethyl vinyl ether	63	10.042	10.042	0.000	91	709690	200.0	220.4	
61 cis-1,3-Dichloropropene	75	10.090	10.090	0.000	95	2229952	200.0	201.6	
\$ 62 Toluene-d8 (Surr)	98	10.314	10.315	-0.001	94	5187997	200.0	199.4	
63 Toluene	92	10.374	10.374	0.000	98	3730112	200.0	193.2	
64 2-Nitropropane	43	10.669	10.681	-0.012	96	466460	400.0	399.5	
65 Tetrachloroethene	164	10.823	10.823	0.000	94	1214596	200.0	196.3	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	94	784037	200.0	217.3	
67 trans-1,3-Dichloropropene	75	10.882	10.883	-0.001	95	1715950	200.0	221.1	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	90	741448	200.0	214.1	
69 Ethyl methacrylate	69	11.095	11.096	-0.001	92	1241264	200.0	225.9	
70 Chlorodibromomethane	129	11.249	11.249	0.000	91	1007694	200.0	233.3	
71 1,3-Dichloropropane	76	11.368	11.368	0.000	94	1661697	200.0	214.0	
72 Ethylene Dibromide	107	11.498	11.498	0.000	98	820174	200.0	221.6	
S 73 1,3-Dichloropropene, Total	75				0			422.8	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	1550045	200.0	229.1	
74 2-Hexanone	43	11.782	11.782	0.000	95	562654	200.0	225.2	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	90	851394	50.0	50.0	
75 1-Chlorohexane	91	12.054	12.054	0.000	87	2074705	200.0	183.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.054	12.054	0.000	92	3147971	200.0	185.0	
78 Ethylbenzene	91	12.101	12.089	0.012	98	6592572	200.0	181.2	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	94	1138336	200.0	211.6	
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	98	2635519	200.0	192.4	
82 o-Xylene	106	12.669	12.669	0.000	97	2469465	200.0	196.3	
83 Styrene	104	12.717	12.717	0.000	95	3664441	200.0	196.1	
84 Bromoform	173	12.740	12.728	0.012	96	432435	200.0	233.9	
85 Isopropylbenzene	105	12.965	12.965	0.000	98	5935360	200.0	174.4	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	83	1816497	200.0	212.1	
87 Bromobenzene	156	13.320	13.320	0.000	98	1246411	200.0	197.5	
88 N-Propylbenzene	91	13.356	13.356	0.000	98	6492567	200.0	169.5	
89 1,1,2,2-Tetrachloroethane	83	13.427	13.427	0.000	95	867093	200.0	217.6	
90 2-Chlorotoluene	91	13.498	13.498	0.000	95	4226418	200.0	187.7	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	95	4686916	200.0	179.6	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	79	234175	200.0	203.1	
93 trans-1,4-Dichloro-2-buten	53	13.592	13.592	0.000	92	317428	200.0	240.4	
94 Cyclohexanone	55	13.592	13.592	0.000	75	265064	2000.0	2348.5	
95 4-Chlorotoluene	91	13.651	13.651	0.000	99	4192262	200.0	188.7	
96 tert-Butylbenzene	119	13.829	13.829	0.000	92	4215682	200.0	182.2	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	4676295	200.0	182.9	
98 sec-Butylbenzene	105	13.983	13.983	0.000	96	5996242	200.0	171.2	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	95	4927357	200.0	176.0	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	97	2375879	200.0	192.1	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	95	349855	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	93	2191325	200.0	190.4	
119 1,2,3-Trimethylbenzene	105	14.279	14.279	0.000	98	4334649	200.0	186.7	
120 Benzyl chloride	126	14.480	14.480	0.000	90	314686	200.0	225.9	
103 n-Butylbenzene	134	14.480	14.480	0.000	98	1291615	200.0	184.6	
104 1,2-Dichlorobenzene	146	14.634	14.622	0.012	96	2074120	200.0	197.3	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	86	143810	200.0	242.2	
106 n-Nonyl Aldehyde	57	15.343	15.344	-0.001	63	708552	200.0	212.8	
107 1,3,5-Trichlorobenzene	180	15.343	15.344	-0.001	95	1631456	200.0	186.0	
108 Hexachlorobutadiene	225	15.864	15.864	0.000	98	837947	200.0	187.3	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	95	1416470	200.0	196.9	
110 Naphthalene	128	16.172	16.172	0.000	98	2623812	200.0	213.6	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	95	1169527	200.0	201.7	
S 112 Xylenes, Total	106				0			388.7	
S 113 Trihalomethanes, Total	1				0			867.6	

Reagents:

8260NewHiWrk_00170

Amount Added: 8.00

Units: uL

8260_Surr_00041

Amount Added: 0.40

Units: uL

I.S. Working_00140

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\\StLouis\\ChromData\\VMSX\\20161118-9113.b\\XICL4412.D

Injection Date: 18-Nov-2016 15:20:30

Instrument ID: VMSX

Operator ID: ADB

Lims ID: IC

Worklist Smp#: 12

Client ID:

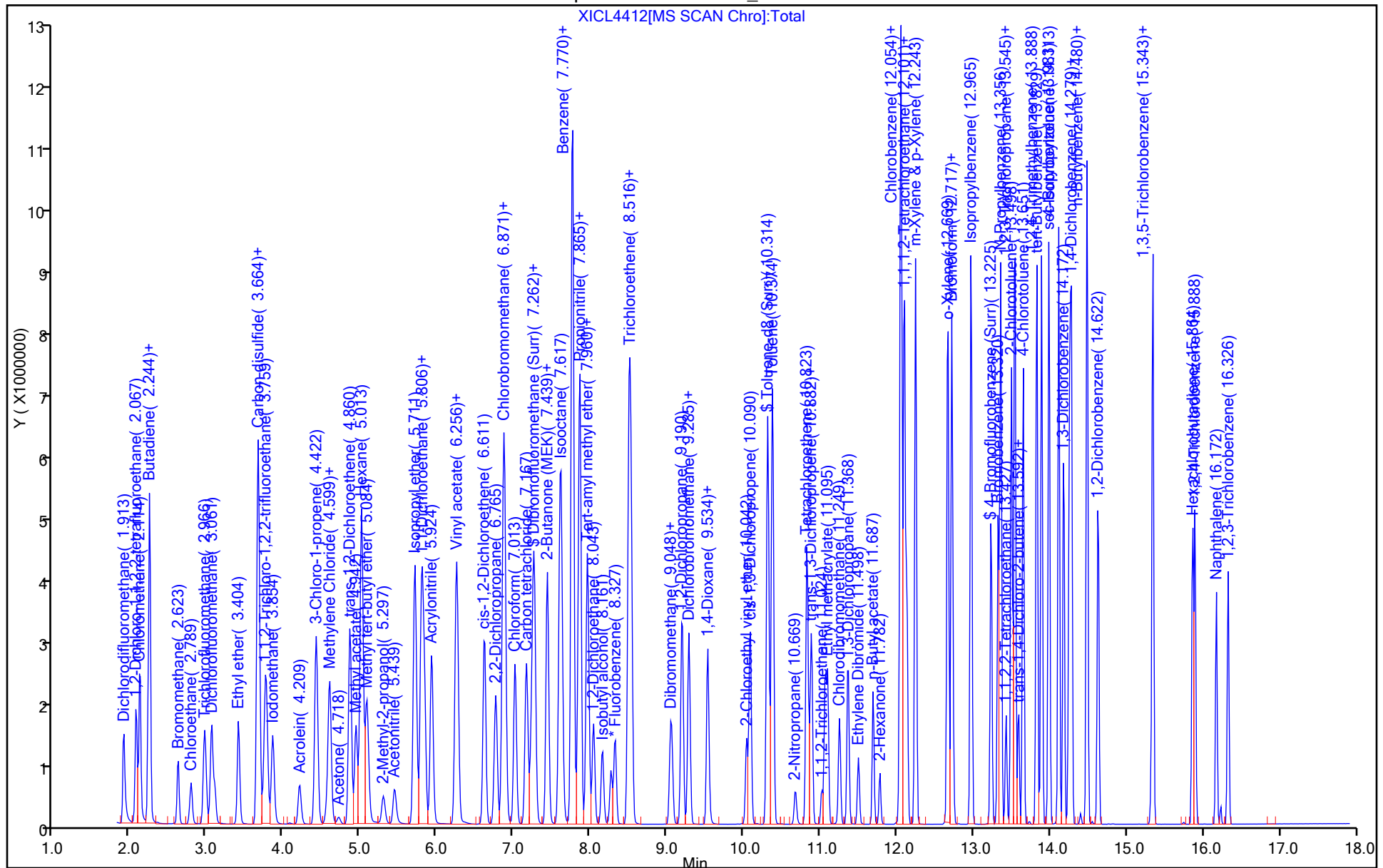
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Lab Sample ID: ICV 160-279985/14 Calibration Date: 11/18/2016 16:09

Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20

Lab File ID: XICV4414.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3425	0.3832	0.1000	55.9	50.0	11.9	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1757	0.2029	0.0100	57.7	50.0	15.4	20.0
Chloromethane	Ave	0.4639	0.5202	0.1000	56.1	50.0	12.1	20.0
Vinyl chloride	Ave	0.3593	0.3824	0.1000	53.2	50.0	6.4	20.0
Butadiene	Ave	0.3277	0.2999	0.0100	45.8	50.0	-8.5	20.0
Bromomethane	Ave	0.1110	0.1183	0.1000	53.3	50.0	6.6	20.0
Chloroethane	Ave	0.1235	0.1300	0.1000	52.6	50.0	5.3	20.0
Trichlorofluoromethane	Ave	0.3020	0.3257	0.1000	53.9	50.0	7.8	20.0
Dichlorofluoromethane	Ave	0.3424	0.3567	0.0100	52.1	50.0	4.2	20.0
Ethyl ether	Ave	0.1286	0.1271	0.0100	49.4	50.0	-1.2	20.0
1,1-Dichloroethene	Ave	0.2910	0.2839	0.1000	48.8	50.0	-2.4	20.0
Ethanol	Ave	0.0015	0.0015*	0.0100	1960	2000	-2.0	20.0
Carbon disulfide	Ave	1.006	0.9946	0.1000	49.4	50.0	-1.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2221	0.2130	0.1000	47.9	50.0	-4.1	20.0
Iodomethane	Ave	0.3909	0.3739	0.0100	47.8	50.0	-4.4	20.0
Acrolein	Ave	0.0270	0.0227	0.0010	210	250	-16.1	20.0
3-Chloro-1-propene	Ave	0.3556	0.3485	0.0100	49.0	50.0	-2.0	20.0
Isopropyl alcohol	Ave	0.0078	0.0077*	0.0100	496	500	-0.8	20.0
Methylene Chloride	Ave	0.2532	0.2463	0.1000	48.6	50.0	-2.7	20.0
Acetone	Lin1		0.0350*	0.1000	48.9	50.0	-2.3	20.0
trans-1,2-Dichloroethene	Ave	0.3030	0.3006	0.1000	49.6	50.0	-0.8	20.0
Methyl acetate	Ave	0.0194	0.0189*	0.1000	243	250	-2.8	20.0
Hexane	Ave	0.1071	0.1070	0.0100	49.9	50.0	-0.1	20.0
Methyl tert-butyl ether	Ave	0.5070	0.4869	0.1000	48.0	50.0	-4.0	20.0
2-Methyl-2-propanol	Ave	0.0129	0.0125	0.0100	485	500	-3.0	20.0
Acetonitrile	Ave	0.0163	0.0155	0.0010	475	500	-5.0	20.0
Isopropyl ether	Ave	0.9550	0.9917	0.0100	51.9	50.0	3.8	20.0
2-Chloro-1,3-butadiene	Ave	0.5888	0.5982	0.0100	50.8	50.0	1.6	20.0
1,1-Dichloroethane	Ave	0.5651	0.5597	0.2000	49.5	50.0	-1.0	20.0
Acrylonitrile	Ave	0.0519	0.0508	0.0100	489	500	-2.2	20.0
Tert-butyl ethyl ether	Ave	0.7808	0.7868	0.0100	50.4	50.0	0.8	20.0
Vinyl acetate	Ave	0.4481	0.4418	0.0100	49.3	50.0	-1.4	20.0
cis-1,2-Dichloroethene	Ave	0.2984	0.2922	0.1000	49.0	50.0	-2.1	20.0
2,2-Dichloropropane	Ave	0.3480	0.3335	0.0100	47.9	50.0	-4.2	20.0
Cyclohexane	Ave	0.5155	0.5169	0.1000	50.1	50.0	0.3	20.0
Bromochloromethane	Ave	0.0946	0.0915	0.0100	48.3	50.0	-3.3	20.0
Chloroform	Ave	0.4566	0.4439	0.2000	48.6	50.0	-2.8	20.0
Carbon tetrachloride	Ave	0.3739	0.3736	0.1000	50.0	50.0	-0.0	20.0
Ethyl acetate	Ave	0.0193	0.0195	0.0100	101	100	0.7	20.0
1,1,1-Trichloroethane	Ave	0.4329	0.4291	0.1000	49.6	50.0	-0.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Lab Sample ID: ICV 160-279985/14 Calibration Date: 11/18/2016 16:09

Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20

Lab File ID: XICV4414.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.4249	0.4387	0.0100	51.6	50.0	3.2	20.0
2-Butanone (MEK)	Ave	0.0610	0.0581*	0.1000	47.6	50.0	-4.9	20.0
Isooctane	Ave	1.599	1.632	0.0100	51.0	50.0	2.1	20.0
n-Heptane	Ave	0.6555	0.6533	0.0100	49.8	50.0	-0.3	20.0
Benzene	Ave	1.173	1.118	0.5000	47.7	50.0	-4.7	20.0
Propionitrile	Ave	0.0181	0.0181	0.0010	499	500	-0.1	20.0
Methacrylonitrile	Ave	0.0836	0.0808	0.0100	483	500	-3.4	20.0
Tert-amyl methyl ether	Ave	0.5301	0.5237	0.0100	49.4	50.0	-1.2	20.0
1,2-Dichloroethane	Ave	0.2706	0.2583	0.1000	47.7	50.0	-4.5	20.0
Isobutyl alcohol	Ave	0.0034	0.0033	0.0010	1210	1250	-3.3	20.0
Methylcyclohexane	Ave	0.5662	0.5722	0.1000	50.5	50.0	1.1	20.0
Trichloroethene	Ave	0.2799	0.2737	0.2000	48.9	50.0	-2.2	20.0
n-Butanol	Qua		0.0037*	0.0100	1190	1250	-4.5	20.0
Dibromomethane	Ave	0.0989	0.0957	0.0100	48.4	50.0	-3.2	20.0
1,2-Dichloropropane	Ave	0.2868	0.2914	0.1000	50.8	50.0	1.6	20.0
Bromodichloromethane	Ave	0.2819	0.2898	0.2000	51.4	50.0	2.8	20.0
Ethyl acrylate	Ave	0.2041	0.2088	0.0100	51.2	50.0	2.3	20.0
Methyl methacrylate	Ave	0.0987	0.0989	0.0100	100	100	0.2	20.0
1,4-Dioxane	Lin1		0.0011	0.0010	976	1000	-2.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1085	0.1141	0.0100	52.6	50.0	5.2	20.0
cis-1,3-Dichloropropene	Ave	0.3726	0.3818	0.2000	51.2	50.0	2.5	20.0
Toluene	Ave	1.134	1.122	0.4000	49.5	50.0	-1.1	20.0
2-Nitropropane	Qua		0.0517	0.0100	96.2	100	-3.8	20.0
Tetrachloroethene	Ave	0.3633	0.3586	0.2000	49.4	50.0	-1.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2119	0.2166	0.1000	51.1	50.0	2.2	20.0
trans-1,3-Dichloropropene	Ave	0.4557	0.4527	0.1000	49.7	50.0	-0.7	20.0
1,1,2-Trichloroethane	Ave	0.2033	0.2097	0.1000	51.6	50.0	3.1	20.0
Ethyl methacrylate	Ave	0.3227	0.3326	0.0100	51.5	50.0	3.1	20.0
Dibromochloromethane	Ave	0.2537	0.2547	0.1000	50.2	50.0	0.4	20.0
1,3-Dichloropropane	Ave	0.4560	0.4501	0.0100	49.3	50.0	-1.3	20.0
1,2-Dibromoethane	Ave	0.2174	0.2170	0.1000	49.9	50.0	-0.2	20.0
n-Butyl acetate	Ave	0.3974	0.3989	0.0100	50.2	50.0	0.4	20.0
2-Hexanone	Ave	0.1467	0.1473	0.1000	50.2	50.0	0.4	20.0
1-Chlorohexane	Ave	0.6626	0.6789	0.0100	51.2	50.0	2.5	20.0
Chlorobenzene	Ave	0.999	1.009	0.5000	50.5	50.0	0.9	20.0
Ethylbenzene	Ave	2.137	2.139	0.1000	50.0	50.0	0.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3159	0.3277	0.0100	51.9	50.0	3.7	20.0
m,p-Xylenes	Ave	0.8043	0.7914	0.1000	49.2	50.0	-1.6	20.0
o-Xylene	Ave	0.7389	0.7606	0.3000	51.5	50.0	2.9	20.0
Styrene	Ave	1.097	1.121	0.3000	51.1	50.0	2.2	20.0
Bromoform	Ave	0.2642	0.2826	0.1000	53.5	50.0	7.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Lab Sample ID: ICV 160-279985/14 Calibration Date: 11/18/2016 16:09
 Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29
 GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20
 Lab File ID: XICV4414.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	4.864	5.128	0.1000	52.7	50.0	5.4	20.0
Bromobenzene	Ave	0.9019	0.9323	0.0100	51.7	50.0	3.4	20.0
N-Propylbenzene	Ave	5.474	5.774	0.0100	52.7	50.0	5.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5694	0.5935	0.3000	52.1	50.0	4.2	20.0
2-Chlorotoluene	Ave	3.219	3.351	0.0100	52.1	50.0	4.1	20.0
1,3,5-Trimethylbenzene	Ave	3.730	3.963	0.0100	53.1	50.0	6.3	20.0
1,2,3-Trichloropropane	Ave	0.1648	0.1721	0.0100	52.2	50.0	4.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1887	0.2006	0.0100	53.2	50.0	6.3	20.0
Cyclohexanone	Ave	0.0161	0.0167	0.0010	517	500	3.5	20.0
4-Chlorotoluene	Ave	3.176	3.323	0.0100	52.3	50.0	4.6	20.0
tert-Butylbenzene	Ave	3.306	3.470	0.0100	52.5	50.0	5.0	20.0
1,2,4-Trimethylbenzene	Ave	3.654	3.828	0.0100	52.4	50.0	4.8	20.0
sec-Butylbenzene	Ave	5.006	5.297	0.0100	52.9	50.0	5.8	20.0
p-Isopropyltoluene	Ave	4.001	4.203	0.0100	52.5	50.0	5.1	20.0
1,3-Dichlorobenzene	Ave	1.767	1.813	0.6000	51.3	50.0	2.6	20.0
1,4-Dichlorobenzene	Ave	1.645	1.727	0.5000	52.5	50.0	5.0	20.0
1,2,3-Trimethylbenzene	Ave	3.318	3.530	0.0100	53.2	50.0	6.4	20.0
Benzyl chloride	Ave	0.1991	0.2143	0.0100	53.8	50.0	7.6	20.0
n-Butylbenzene	Ave	1.000	1.050	0.0100	52.5	50.0	5.0	20.0
1,2-Dichlorobenzene	Ave	1.502	1.555	0.4000	51.8	50.0	3.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0848	0.0910	0.0500	53.6	50.0	7.2	20.0
1,3,5-Trichlorobenzene	Ave	1.253	1.332	0.0100	53.1	50.0	6.3	20.0
n-Nonyl Aldehyde	Lin1		0.4332	0.0100	47.9	50.0	-4.3	20.0
Hexachlorobutadiene	Ave	0.6394	0.6700	0.0100	52.4	50.0	4.8	20.0
1,2,4-Trichlorobenzene	Ave	1.028	1.065	0.2000	51.8	50.0	3.6	20.0
Naphthalene	Ave	1.756	1.845	0.0100	52.5	50.0	5.1	20.0
1,2,3-Trichlorobenzene	Ave	0.8288	0.8772	0.0100	52.9	50.0	5.8	20.0
Dibromofluoromethane (Surr)	Ave	0.1953	0.1912	0.0100	48.9	50.0	-2.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2067	0.2002	0.0100	48.4	50.0	-3.1	20.0
Toluene-d8 (Surr)	Ave	1.528	1.542	0.0100	50.4	50.0	0.9	20.0
4-Bromofluorobenzene (Surr)	Ave	1.224	1.252	0.0100	51.2	50.0	2.3	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICV4414.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 18-Nov-2016 16:09:30 ALS Bottle#: 11 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Operator ID: ADB Instrument ID: VMSX
 Sublist:
 Method: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Nov-2016 10:09:43 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK022

First Level Reviewer: rhoadess

Date: 23-Nov-2016 10:09:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.901	1.913	-0.012	99	595551	50.0	55.9	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.067	2.067	0.000	98	315246	50.0	57.7	
3 Chloromethane	50	2.114	2.114	0.000	99	808353	50.0	56.1	
4 Vinyl chloride	62	2.221	2.221	0.000	98	594279	50.0	53.2	
121 Butadiene	39	2.244	2.245	0.000	87	466101	50.0	45.8	
5 Bromomethane	94	2.611	2.623	-0.012	92	183837	50.0	53.3	
6 Chloroethane	64	2.789	2.789	0.000	99	202017	50.0	52.6	
7 Trichlorofluoromethane	101	2.954	2.966	-0.012	99	506097	50.0	53.9	
122 Dichlorofluoromethane	67	3.049	3.061	-0.012	97	554308	50.0	52.1	
8 Ethyl ether	74	3.404	3.404	0.000	95	197495	50.0	49.4	
11 Ethanol	45	3.653	3.653	0.000	30	91395	2000.0	1959.3	
9 1,1-Dichloroethene	96	3.653	3.664	-0.011	92	441209	50.0	48.8	
10 Carbon disulfide	76	3.664	3.664	0.000	100	1545717	50.0	49.4	
12 1,1,2-Trichloro-1,2,2-trif	151	3.759	3.771	-0.012	95	330974	50.0	47.9	
13 Iodomethane	142	3.854	3.854	0.000	99	581046	50.0	47.8	
14 Acrolein	56	4.197	4.209	-0.012	100	176231	250.0	209.7	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	93	541526	50.0	49.0	
16 Isopropyl alcohol	45	4.564	4.564	0.000	99	120304	500.0	495.9	
17 Methylene Chloride	84	4.599	4.599	0.000	99	382689	50.0	48.6	
18 Acetone	43	4.718	4.718	0.000	99	54405	50.0	48.9	
19 trans-1,2-Dichloroethene	96	4.860	4.860	0.000	94	467082	50.0	49.6	
20 Methyl acetate	74	4.942	4.942	0.000	99	146756	250.0	243.0	
21 Hexane	86	5.013	5.013	0.000	85	166269	50.0	49.9	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	95	756675	50.0	48.0	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	99	194316	500.0	484.8	
24 Acetonitrile	41	5.439	5.439	0.000	99	241219	500.0	475.1	
25 Isopropyl ether	45	5.712	5.712	0.000	96	1541260	50.0	51.9	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	93	929659	50.0	50.8	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	97	869804	50.0	49.5	
29 Acrylonitrile	53	5.925	5.925	-0.001	100	789258	500.0	489.1	
30 Tert-butyl ethyl ether	59	6.244	6.256	-0.012	98	1222742	50.0	50.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Vinyl acetate	43	6.268	6.268	0.000	97	686606	50.0	49.3	
32 cis-1,2-Dichloroethene	96	6.611	6.623	-0.012	83	454152	50.0	49.0	
33 2,2-Dichloropropane	77	6.765	6.765	0.000	91	518346	50.0	47.9	
34 Cyclohexane	84	6.871	6.871	0.000	92	803288	50.0	50.1	
35 Chlorobromomethane	128	6.883	6.883	0.000	91	142130	50.0	48.3	
36 Chloroform	83	7.013	7.013	0.000	94	689806	50.0	48.6	
37 Carbon tetrachloride	117	7.167	7.167	0.000	97	580558	50.0	50.0	
38 Tetrahydrofuran	71	7.226	7.226	0.000	94	41794	100.0	101.9	
39 Ethyl acetate	45	7.238	7.238	0.000	99	60512	100.0	100.7	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.262	0.000	92	297060	50.0	48.9	
40 1,1,1-Trichloroethane	97	7.262	7.262	0.000	98	666811	50.0	49.6	
42 1,1-Dichloropropene	75	7.439	7.439	0.000	96	681728	50.0	51.6	
43 2-Butanone (MEK)	43	7.463	7.463	0.000	100	90225	50.0	47.6	
124 Isooctane	57	7.605	7.605	0.000	95	2536927	50.0	51.0	
117 n-Heptane	43	7.759	7.759	0.000	80	1015222	50.0	49.8	
44 Benzene	78	7.770	7.770	0.000	97	1738007	50.0	47.7	
45 Propionitrile	54	7.830	7.830	0.000	93	280796	500.0	499.3	
46 Methacrylonitrile	41	7.853	7.865	-0.012	92	1256261	500.0	483.2	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	86	311093	50.0	48.4	
48 Tert-amyl methyl ether	73	7.960	7.972	-0.012	96	813893	50.0	49.4	
49 1,2-Dichloroethane	62	8.043	8.043	0.000	97	401347	50.0	47.7	
50 Isobutyl alcohol	42	8.161	8.161	0.000	96	128581	1250.0	1208.5	
* 51 Fluorobenzene	96	8.327	8.327	0.000	98	1554090	50.0	50.0	
52 Methylcyclohexane	55	8.504	8.504	0.000	94	889227	50.0	50.5	
53 Trichloroethene	95	8.528	8.528	0.000	97	425328	50.0	48.9	
54 n-Butanol	56	9.048	9.048	0.000	85	142024	1250.0	1193.8	
55 Dibromomethane	93	9.060	9.060	0.000	94	148701	50.0	48.4	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	97	452783	50.0	50.8	
123 Ethyl acrylate	55	9.285	9.285	0.000	98	324528	50.0	51.2	
57 Dichlorobromomethane	83	9.285	9.285	0.000	99	450370	50.0	51.4	
58 Methyl methacrylate	69	9.534	9.534	0.000	95	307434	100.0	100.2	
59 1,4-Dioxane	88	9.557	9.557	0.000	1	34696	1000.0	975.7	M
60 2-Chloroethyl vinyl ether	63	10.042	10.042	0.000	91	177388	50.0	52.6	
61 cis-1,3-Dichloropropene	75	10.090	10.090	0.000	95	593287	50.0	51.2	
\$ 62 Toluene-d8 (Surr)	98	10.315	10.315	0.000	93	1471354	50.0	50.4	
63 Toluene	92	10.374	10.374	0.000	98	1070517	50.0	49.5	
64 2-Nitropropane	43	10.670	10.681	-0.011	97	98651	100.0	96.2	
65 Tetrachloroethene	164	10.823	10.823	0.000	95	342261	50.0	49.4	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	94	206691	50.0	51.1	
67 trans-1,3-Dichloropropene	75	10.882	10.883	-0.001	95	432064	50.0	49.7	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	90	200096	50.0	51.6	
69 Ethyl methacrylate	69	11.095	11.096	-0.001	87	317455	50.0	51.5	
70 Chlorodibromomethane	129	11.249	11.249	0.000	91	243051	50.0	50.2	
71 1,3-Dichloropropane	76	11.368	11.368	0.000	93	429546	50.0	49.3	
72 Ethylene Dibromide	107	11.498	11.498	0.000	99	207131	50.0	49.9	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	380737	50.0	50.2	
74 2-Hexanone	43	11.782	11.782	0.000	94	140591	50.0	50.2	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	89	954381	50.0	50.0	
75 1-Chlorohexane	91	12.054	12.054	0.000	82	647951	50.0	51.2	
77 Chlorobenzene	112	12.054	12.054	0.000	95	962688	50.0	50.5	
78 Ethylbenzene	91	12.089	12.089	0.000	96	2041074	50.0	50.0	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	94	312778	50.0	51.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	755336	50.0	49.2	
82 o-Xylene	106	12.669	12.669	0.000	97	725886	50.0	51.5	
83 Styrene	104	12.717	12.717	0.000	95	1069785	50.0	51.1	
84 Bromoform	173	12.728	12.728	0.000	95	107347	50.0	53.5	
85 Isopropylbenzene	105	12.965	12.965	0.000	97	1947747	50.0	52.7	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	84	475677	50.0	51.2	
87 Bromobenzene	156	13.320	13.320	0.000	96	354132	50.0	51.7	
88 N-Propylbenzene	91	13.356	13.356	0.000	98	2193096	50.0	52.7	
89 1,1,2,2-Tetrachloroethane	83	13.427	13.427	0.000	95	225446	50.0	52.1	
90 2-Chlorotoluene	91	13.498	13.498	0.000	95	1272884	50.0	52.1	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	94	1505262	50.0	53.1	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	80	65371	50.0	52.2	
93 trans-1,4-Dichloro-2-buten	53	13.580	13.592	-0.012	87	76214	50.0	53.2	
94 Cyclohexanone	55	13.592	13.592	0.000	75	63394	500.0	517.3	
95 4-Chlorotoluene	91	13.651	13.651	0.000	99	1262064	50.0	52.3	
96 tert-Butylbenzene	119	13.829	13.829	0.000	93	1318043	50.0	52.5	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	1454106	50.0	52.4	
98 sec-Butylbenzene	105	13.983	13.983	0.000	95	2011952	50.0	52.9	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	1596422	50.0	52.5	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	98	688616	50.0	51.3	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	379845	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	94	655847	50.0	52.5	
119 1,2,3-Trimethylbenzene	105	14.279	14.279	0.000	99	1340856	50.0	53.2	
120 Benzyl chloride	126	14.480	14.480	0.000	90	81384	50.0	53.8	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	398815	50.0	52.5	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	96	590760	50.0	51.8	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	85	34556	50.0	53.6	
106 n-Nonyl Aldehyde	57	15.344	15.344	0.000	56	164544	50.0	47.9	
107 1,3,5-Trichlorobenzene	180	15.344	15.344	0.000	97	505910	50.0	53.1	
108 Hexachlorobutadiene	225	15.864	15.864	0.000	97	254482	50.0	52.4	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	94	404593	50.0	51.8	
110 Naphthalene	128	16.172	16.172	0.000	97	700666	50.0	52.5	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	95	333212	50.0	52.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 Surr 25_00067

Amount Added: 10.00

Units: uL

8260NewICVMix_00183

Amount Added: 10.00

Units: uL

I.S. Working_00140

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\MSX\20161118-9113.b\XICV4414.D

Injection Date: 18-Nov-2016 16:09:30

Instrument ID: VMSX

Operator ID: ADB

Lims ID: ICV

Worklist Smp#: 14

Client ID:

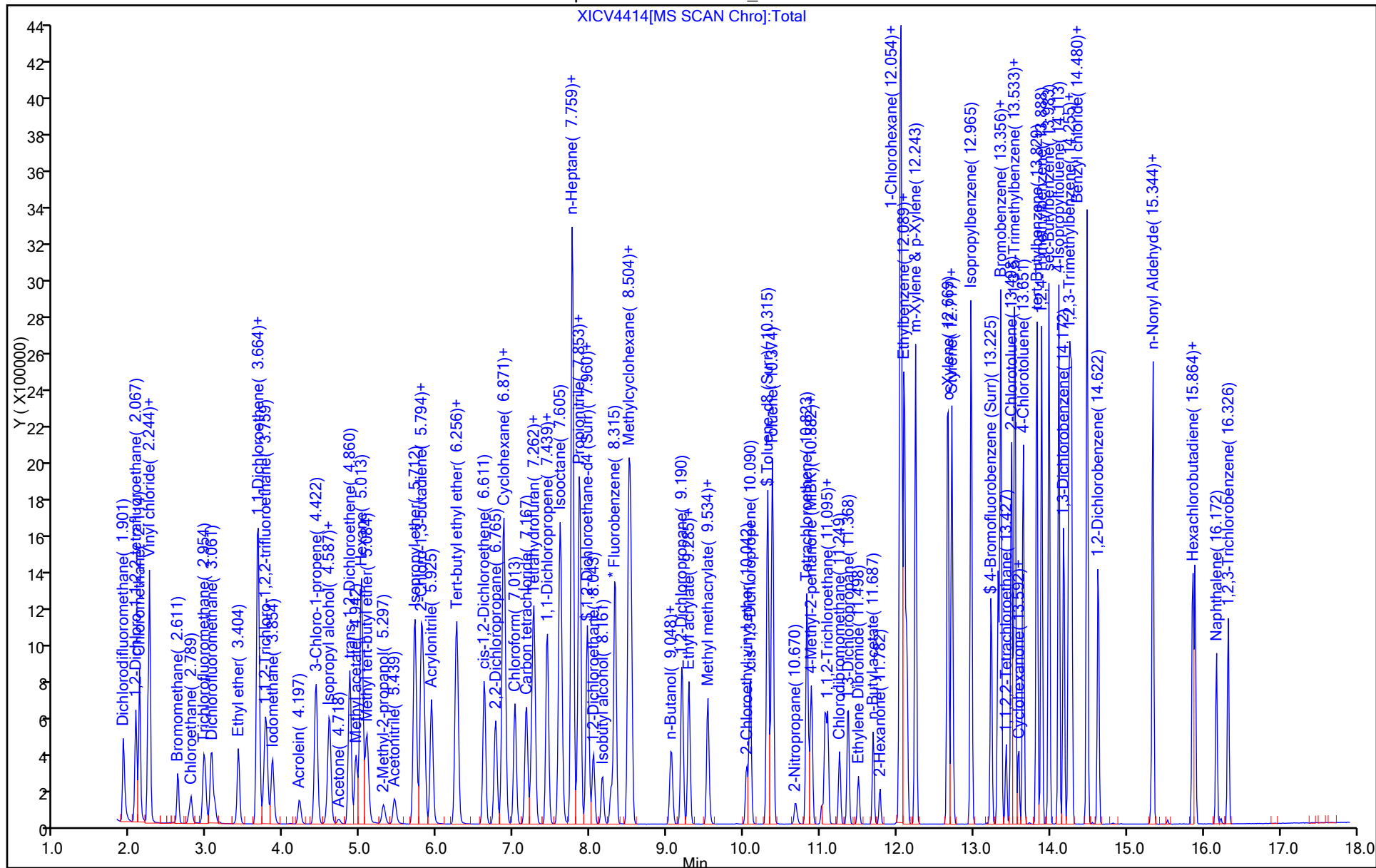
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis

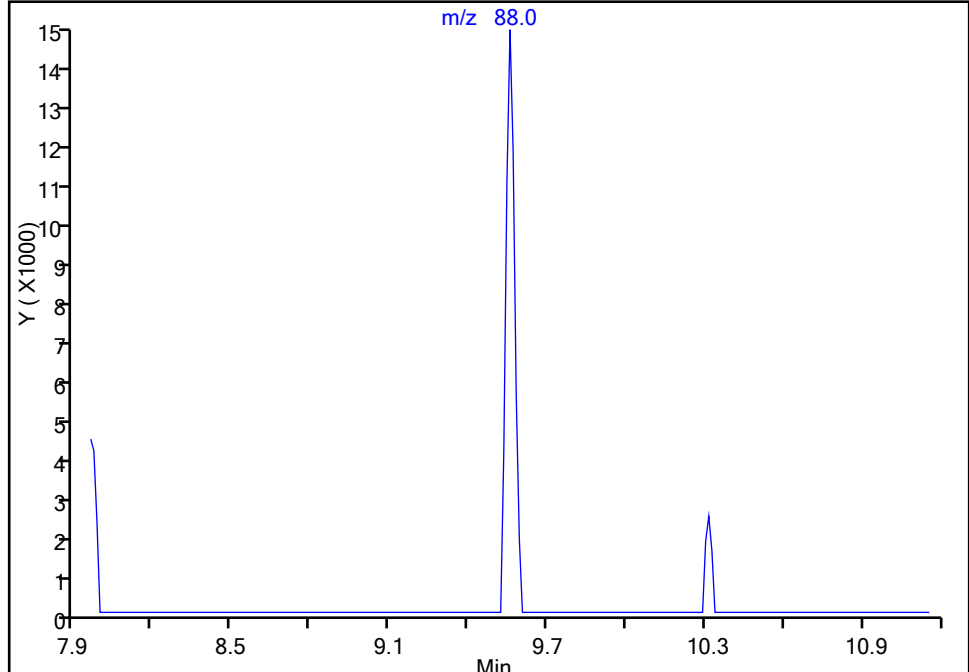
Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICV4414.D
Injection Date: 18-Nov-2016 16:09:30 Instrument ID: VMSX
Lims ID: ICV
Client ID:
Operator ID: ADB ALS Bottle#: 11 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

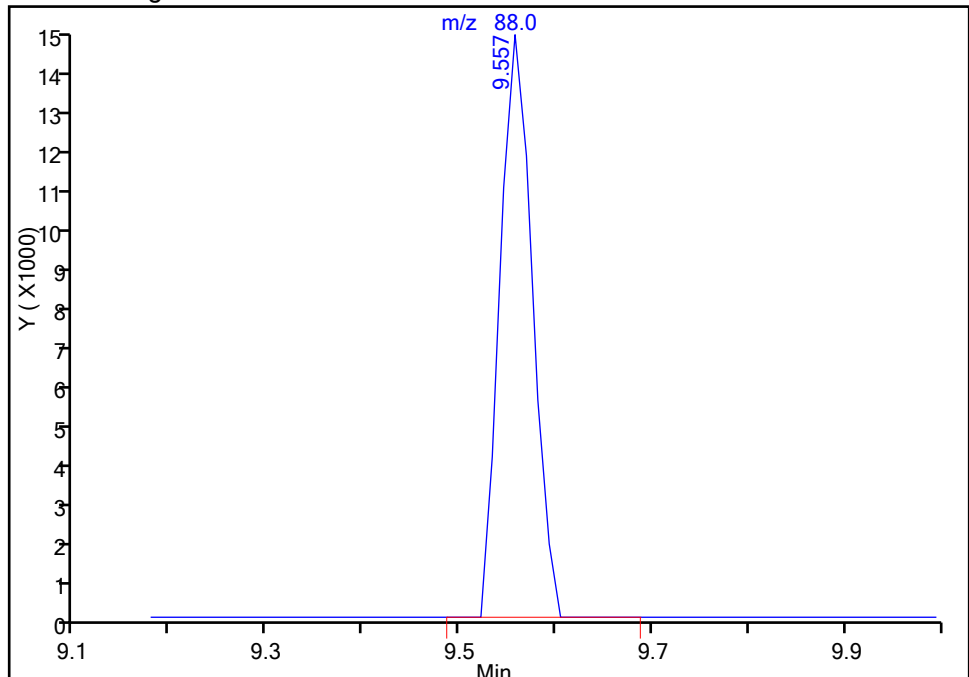
Not Detected
Expected RT: 9.56

Processing Integration Results



RT: 9.56
Area: 34696
Amount: 975.7284
Amount Units: ug/l

Manual Integration Results



Reviewer: buettnera, 21-Nov-2016 08:57:39

Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica St. Louis

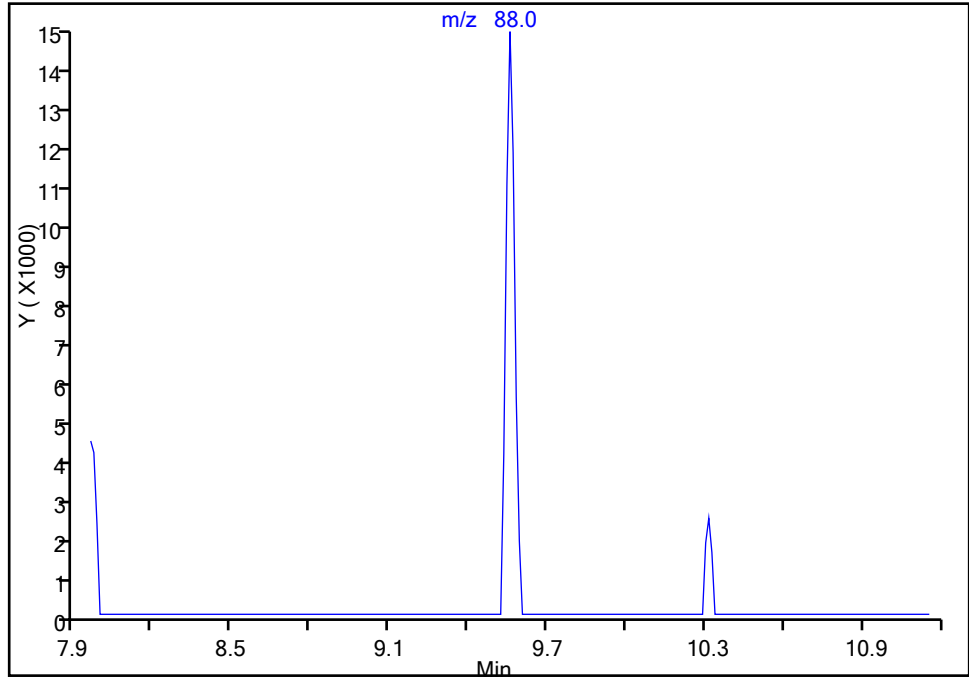
Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICV4414.D
Injection Date: 18-Nov-2016 16:09:30 Instrument ID: VMSX
Lims ID: ICV
Client ID:
Operator ID: ADB ALS Bottle#: 11 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

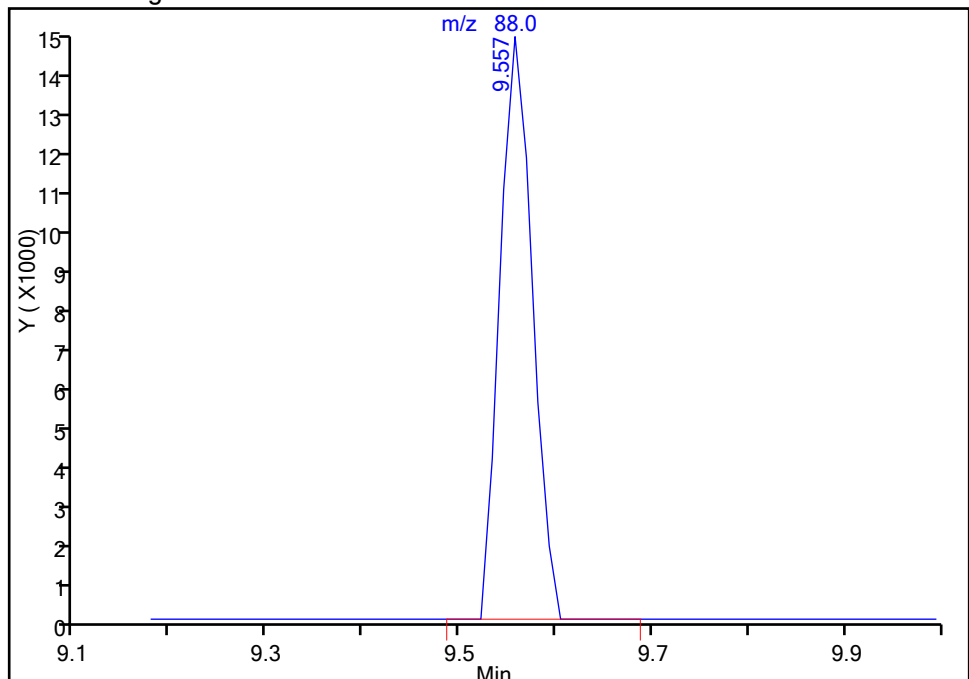
Signal: 1

Not Detected
Expected RT: 9.56

Processing Integration Results



Manual Integration Results



RT: 9.56
Area: 34696
Amount: 975.7284
Amount Units: ug/l

Reviewer: buettnera, 21-Nov-2016 08:57:39

Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Lab Sample ID: CCV 160-287920/3 Calibration Date: 01/16/2017 17:43

Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20

Lab File ID: XCCV5169.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3425	0.3891	0.1000	56.8	50.0	13.6	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1757	0.1824	0.0100	51.9	50.0	3.8	20.0
Chloromethane	Ave	0.4639	0.4364	0.1000	47.0	50.0	-5.9	20.0
Vinyl chloride	Ave	0.3593	0.3648	0.1000	50.8	50.0	1.5	20.0
Butadiene	Ave	0.3277	0.3500	0.0100	53.4	50.0	6.8	20.0
Bromomethane	Ave	0.1110	0.1193	0.1000	53.8	50.0	7.6	20.0
Chloroethane	Ave	0.1235	0.1146	0.1000	46.4	50.0	-7.2	20.0
Trichlorofluoromethane	Ave	0.3020	0.3413	0.1000	56.5	50.0	13.0	20.0
Dichlorofluoromethane	Ave	0.3424	0.3578	0.0100	52.2	50.0	4.5	20.0
Ethyl ether	Ave	0.1286	0.1258	0.0100	48.9	50.0	-2.2	20.0
Ethanol	Ave	0.0015	0.0016*	0.0100	2090	2000	4.3	20.0
1,1-Dichloroethene	Ave	0.2910	0.2907	0.1000	49.9	50.0	-0.1	20.0
Carbon disulfide	Ave	1.006	0.9946	0.1000	49.4	50.0	-1.1	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2221	0.2267	0.1000	51.0	50.0	2.1	20.0
Iodomethane	Ave	0.3909	0.3953	0.0100	50.6	50.0	1.1	20.0
Acrolein	Ave	0.0270	0.0198	0.0010	183	250	-26.9*	20.0
3-Chloro-1-propene	Ave	0.3556	0.3585	0.0100	50.4	50.0	0.8	20.0
Isopropyl alcohol	Ave	0.0078	0.0075*	0.0100	481	500	-3.9	20.0
Methylene Chloride	Ave	0.2532	0.2431	0.1000	48.0	50.0	-4.0	20.0
Acetone	Lin1		0.0390*	0.1000	54.8	50.0	9.6	20.0
trans-1,2-Dichloroethene	Ave	0.3030	0.2992	0.1000	49.4	50.0	-1.2	20.0
Methyl acetate	Ave	0.0194	0.0194*	0.1000	249	250	-0.4	20.0
Hexane	Ave	0.1071	0.1025	0.0100	47.9	50.0	-4.3	20.0
Methyl tert-butyl ether	Ave	0.5070	0.4479	0.1000	44.2	50.0	-11.7	20.0
2-Methyl-2-propanol	Ave	0.0129	0.0117	0.0100	452	500	-9.6	20.0
Acetonitrile	Ave	0.0163	0.0163	0.0010	499	500	-0.1	20.0
Isopropyl ether	Ave	0.9550	0.8830	0.0100	46.2	50.0	-7.5	20.0
2-Chloro-1,3-butadiene	Ave	0.5888	0.5638	0.0100	47.9	50.0	-4.3	20.0
1,1-Dichloroethane	Ave	0.5651	0.5275	0.2000	46.7	50.0	-6.6	20.0
Acrylonitrile	Ave	0.0519	0.0494	0.0100	476	500	-4.9	20.0
Tert-butyl ethyl ether	Ave	0.7808	0.6989	0.0100	44.8	50.0	-10.5	20.0
Vinyl acetate	Ave	0.4481	0.4332	0.0100	48.3	50.0	-3.3	20.0
cis-1,2-Dichloroethene	Ave	0.2984	0.2843	0.1000	47.6	50.0	-4.7	20.0
2,2-Dichloropropane	Ave	0.3480	0.3260	0.0100	46.8	50.0	-6.3	20.0
Cyclohexane	Ave	0.5155	0.4837	0.1000	46.9	50.0	-6.2	20.0
Bromochloromethane	Ave	0.0946	0.0971	0.0100	51.3	50.0	2.7	20.0
Chloroform	Ave	0.4566	0.4423	0.2000	48.4	50.0	-3.1	20.0
Carbon tetrachloride	Ave	0.3739	0.3912	0.1000	52.3	50.0	4.6	20.0
Ethyl acetate	Ave	0.0193	0.0194	0.0100	100	100	0.5	20.0
1,1,1-Trichloroethane	Ave	0.4329	0.4338	0.1000	50.1	50.0	0.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Lab Sample ID: CCV 160-287920/3 Calibration Date: 01/16/2017 17:43

Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20

Lab File ID: XCCV5169.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.4249	0.4128	0.0100	48.6	50.0	-2.9	20.0
2-Butanone (MEK)	Ave	0.0610	0.0594*	0.1000	48.7	50.0	-2.7	20.0
Isooctane	Ave	1.599	1.472	0.0100	46.0	50.0	-8.0	20.0
Benzene	Ave	1.173	1.060	0.5000	45.2	50.0	-9.7	20.0
n-Heptane	Ave	0.6555	0.6331	0.0100	48.3	50.0	-3.4	20.0
Propionitrile	Ave	0.0181	0.0181	0.0010	500	500	0.0	20.0
Methacrylonitrile	Ave	0.0836	0.0825	0.0100	493	500	-1.4	20.0
Tert-amyl methyl ether	Ave	0.5301	0.4754	0.0100	44.8	50.0	-10.3	20.0
1,2-Dichloroethane	Ave	0.2706	0.2603	0.1000	48.1	50.0	-3.8	20.0
Isobutyl alcohol	Ave	0.0034	0.0033	0.0010	1190	1250	-5.1	20.0
Methylcyclohexane	Ave	0.5662	0.5411	0.1000	47.8	50.0	-4.4	20.0
Trichloroethene	Ave	0.2799	0.2769	0.2000	49.5	50.0	-1.1	20.0
n-Butanol	Qua		0.0033*	0.0100	1090	1250	-12.5	20.0
Dibromomethane	Ave	0.0989	0.0989	0.0100	50.0	50.0	0.0	20.0
1,2-Dichloropropane	Ave	0.2868	0.2661	0.1000	46.4	50.0	-7.2	20.0
Ethyl acrylate	Ave	0.2041	0.1813	0.0100	44.4	50.0	-11.2	20.0
Bromodichloromethane	Ave	0.2819	0.2859	0.2000	50.7	50.0	1.4	20.0
Methyl methacrylate	Ave	0.0987	0.0922	0.0100	93.4	100	-6.6	20.0
1,4-Dioxane	Lin1		0.0012	0.0010	1080	1000	8.2	20.0
2-Chloroethyl vinyl ether	Ave	0.1085	0.0891	0.0100	41.1	50.0	-17.9	20.0
cis-1,3-Dichloropropene	Ave	0.3726	0.3674	0.2000	49.3	50.0	-1.4	20.0
Toluene	Ave	1.134	1.020	0.4000	45.0	50.0	-10.0	20.0
2-Nitropropane	Qua		0.0439	0.0100	83.3	100	-16.7	20.0
Tetrachloroethene	Ave	0.3633	0.3614	0.2000	49.7	50.0	-0.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2119	0.1916	0.1000	45.2	50.0	-9.6	20.0
trans-1,3-Dichloropropene	Ave	0.4557	0.4365	0.1000	47.9	50.0	-4.2	20.0
1,1,2-Trichloroethane	Ave	0.2033	0.1899	0.1000	46.7	50.0	-6.6	20.0
Ethyl methacrylate	Ave	0.3227	0.2779	0.0100	43.1	50.0	-13.9	20.0
Dibromochloromethane	Ave	0.2537	0.2572	0.1000	50.7	50.0	1.4	20.0
1,3-Dichloropropane	Ave	0.4560	0.4196	0.0100	46.0	50.0	-8.0	20.0
1,2-Dibromoethane	Ave	0.2174	0.2052	0.1000	47.2	50.0	-5.6	20.0
n-Butyl acetate	Ave	0.3974	0.3376	0.0100	42.5	50.0	-15.0	20.0
2-Hexanone	Ave	0.1467	0.1332	0.1000	45.4	50.0	-9.2	20.0
1-Chlorohexane	Ave	0.6626	0.7127	0.0100	53.8	50.0	7.6	20.0
Chlorobenzene	Ave	0.999	0.9613	0.5000	48.1	50.0	-3.8	20.0
Ethylbenzene	Ave	2.137	1.949	0.1000	45.6	50.0	-8.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3159	0.3101	0.0100	49.1	50.0	-1.8	20.0
m,p-Xylenes	Ave	0.8043	0.7502	0.1000	46.6	50.0	-6.7	20.0
o-Xylene	Ave	0.7389	0.6977	0.3000	47.2	50.0	-5.6	20.0
Styrene	Ave	1.097	1.028	0.3000	46.9	50.0	-6.3	20.0
Bromoform	Ave	0.2642	0.2827	0.1000	53.5	50.0	7.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Lab Sample ID: CCV 160-287920/3 Calibration Date: 01/16/2017 17:43
 Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29
 GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20
 Lab File ID: XCCV5169.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	4.864	4.586	0.1000	47.1	50.0	-5.7	20.0
Bromobenzene	Ave	0.9019	0.8586	0.0100	47.6	50.0	-4.8	20.0
N-Propylbenzene	Ave	5.474	5.279	0.0100	48.2	50.0	-3.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5694	0.5101	0.3000	44.8	50.0	-10.4	20.0
2-Chlorotoluene	Ave	3.219	3.044	0.0100	47.3	50.0	-5.4	20.0
1,3,5-Trimethylbenzene	Ave	3.730	3.531	0.0100	47.3	50.0	-5.3	20.0
1,2,3-Trichloropropane	Ave	0.1648	0.1565	0.0100	47.5	50.0	-5.0	20.0
Cyclohexanone	Ave	0.0161	0.0147	0.0010	456	500	-8.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1887	0.1830	0.0100	48.5	50.0	-3.0	20.0
4-Chlorotoluene	Ave	3.176	2.972	0.0100	46.8	50.0	-6.4	20.0
tert-Butylbenzene	Ave	3.306	3.157	0.0100	47.7	50.0	-4.5	20.0
1,2,4-Trimethylbenzene	Ave	3.654	3.454	0.0100	47.3	50.0	-5.5	20.0
sec-Butylbenzene	Ave	5.006	4.817	0.0100	48.1	50.0	-3.8	20.0
p-Isopropyltoluene	Ave	4.001	3.931	0.0100	49.1	50.0	-1.8	20.0
1,3-Dichlorobenzene	Ave	1.767	1.678	0.6000	47.5	50.0	-5.1	20.0
1,4-Dichlorobenzene	Ave	1.645	1.598	0.5000	48.6	50.0	-2.9	20.0
1,2,3-Trimethylbenzene	Ave	3.318	3.159	0.0100	47.6	50.0	-4.8	20.0
Benzyl chloride	Ave	0.1991	0.2070	0.0100	52.0	50.0	4.0	20.0
n-Butylbenzene	Ave	1.000	1.003	0.0100	50.2	50.0	0.3	20.0
1,2-Dichlorobenzene	Ave	1.502	1.436	0.4000	47.8	50.0	-4.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0848	0.0799	0.0500	47.1	50.0	-5.8	20.0
n-Nonyl Aldehyde	Lin1		0.3836	0.0100	42.7	50.0	-14.6	20.0
1,3,5-Trichlorobenzene	Ave	1.253	1.305	0.0100	52.0	50.0	4.1	20.0
Hexachlorobutadiene	Ave	0.6394	0.6984	0.0100	54.6	50.0	9.2	20.0
1,2,4-Trichlorobenzene	Ave	1.028	1.020	0.2000	49.6	50.0	-0.8	20.0
Naphthalene	Ave	1.756	1.673	0.0100	47.7	50.0	-4.7	20.0
1,2,3-Trichlorobenzene	Ave	0.8288	0.8132	0.0100	49.1	50.0	-1.9	20.0
Dibromofluoromethane (Surr)	Ave	0.1953	0.2045	0.0100	52.3	50.0	4.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2067	0.2083	0.0100	50.4	50.0	0.8	20.0
Toluene-d8 (Surr)	Ave	1.528	1.521	0.0100	49.8	50.0	-0.5	20.0
4-Bromofluorobenzene (Surr)	Ave	1.224	1.142	0.0100	46.6	50.0	-6.7	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XCCV5169.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 16-Jan-2017 17:43:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-003
 Misc. Info.: CCVIS
 Operator ID: JDH Instrument ID: VMSX
 Sublist: chrom-5mL-8260-MSX*sub15
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN

Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:09:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.913	1.913	0.000	99	519073	50.0	56.8	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.067	2.067	0.000	100	243258	50.0	51.9	
3 Chloromethane	50	2.126	2.126	0.000	99	582130	50.0	47.0	
4 Vinyl chloride	62	2.233	2.233	0.000	98	486556	50.0	50.8	
121 Butadiene	39	2.256	2.256	0.000	88	466914	50.0	53.4	
5 Bromomethane	94	2.623	2.623	0.000	93	159180	50.0	53.8	
6 Chloroethane	64	2.789	2.789	0.000	98	152851	50.0	46.4	
7 Trichlorofluoromethane	101	2.966	2.966	0.000	99	455287	50.0	56.5	
122 Dichlorofluoromethane	67	3.061	3.061	0.000	97	477212	50.0	52.2	
8 Ethyl ether	74	3.404	3.404	0.000	94	167815	50.0	48.9	
11 Ethanol	45	3.653	3.653	0.000	39	83516	2000.0	2085.9	
9 1,1-Dichloroethene	96	3.664	3.664	0.000	93	387722	50.0	49.9	
10 Carbon disulfide	76	3.664	3.664	0.000	100	1326667	50.0	49.4	
12 1,1,2-Trichloro-1,2,2-trif	151	3.771	3.771	0.000	94	302412	50.0	51.0	
13 Iodomethane	142	3.854	3.854	0.000	100	527321	50.0	50.6	
14 Acrolein	56	4.197	4.197	0.000	100	131866	250.0	182.8	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	91	478249	50.0	50.4	
16 Isopropyl alcohol	45	4.564	4.564	0.000	60	100104	500.0	480.7	
17 Methylene Chloride	84	4.587	4.587	0.000	99	324286	50.0	48.0	
18 Acetone	43	4.706	4.706	0.000	100	52053	50.0	54.8	
19 trans-1,2-Dichloroethene	96	4.860	4.860	0.000	95	399144	50.0	49.4	
20 Methyl acetate	74	4.942	4.942	0.000	99	129057	250.0	249.0	
21 Hexane	86	5.013	5.013	0.000	87	136762	50.0	47.9	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	99	597485	50.0	44.2	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	97	155464	500.0	451.9	
24 Acetonitrile	41	5.439	5.439	0.000	99	217574	500.0	499.3	
25 Isopropyl ether	45	5.700	5.700	0.000	95	1177799	50.0	46.2	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	93	751998	50.0	47.9	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	97	703699	50.0	46.7	
29 Acrylonitrile	53	5.925	5.925	0.000	99	658876	500.0	475.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	6.244	6.244	0.000	98	932295	50.0	44.8	
31 Vinyl acetate	43	6.256	6.256	0.000	97	577907	50.0	48.3	
32 cis-1,2-Dichloroethene	96	6.611	6.611	0.000	83	379183	50.0	47.6	
33 2,2-Dichloropropane	77	6.753	6.753	0.000	92	434869	50.0	46.8	
34 Cyclohexane	84	6.859	6.859	0.000	93	645182	50.0	46.9	
35 Chlorobromomethane	128	6.883	6.883	0.000	93	129555	50.0	51.3	
36 Chloroform	83	7.013	7.013	0.000	94	590036	50.0	48.4	
37 Carbon tetrachloride	117	7.155	7.155	0.000	98	521873	50.0	52.3	
38 Tetrahydrofuran	71	7.214	7.214	0.000	92	34943	100.0	99.2	
39 Ethyl acetate	45	7.226	7.226	0.000	98	51815	100.0	100.5	
\$ 41 Dibromofluoromethane (Surr	113	7.250	7.250	0.000	90	272759	50.0	52.3	
40 1,1,1-Trichloroethane	97	7.262	7.262	0.000	98	578685	50.0	50.1	
42 1,1-Dichloropropene	75	7.427	7.427	0.000	95	550582	50.0	48.6	
43 2-Butanone (MEK)	43	7.451	7.451	0.000	98	79215	50.0	48.7	
124 Isooctane	57	7.593	7.593	0.000	96	1963577	50.0	46.0	
117 n-Heptane	43	7.759	7.759	0.000	79	844491	50.0	48.3	
44 Benzene	78	7.759	7.759	0.000	97	1413882	50.0	45.2	
45 Propionitrile	54	7.830	7.830	0.000	95	241532	500.0	500.4	
46 Methacrylonitrile	41	7.853	7.853	0.000	93	1100319	500.0	493.1	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	88	277890	50.0	50.4	
48 Tert-amyl methyl ether	73	7.960	7.960	0.000	96	634149	50.0	44.8	
49 1,2-Dichloroethane	62	8.031	8.031	0.000	97	347210	50.0	48.1	
50 Isobutyl alcohol	42	8.149	8.149	0.000	95	108353	1250.0	1186.4	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1333929	50.0	50.0	
52 Methylcyclohexane	55	8.492	8.492	0.000	95	721799	50.0	47.8	
53 Trichloroethene	95	8.528	8.528	0.000	98	369333	50.0	49.5	
54 n-Butanol	56	9.037	9.037	0.000	88	110859	1250.0	1093.5	
55 Dibromomethane	93	9.048	9.048	0.000	96	131878	50.0	50.0	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	95	354977	50.0	46.4	
123 Ethyl acrylate	55	9.273	9.273	0.000	98	241845	50.0	44.4	
57 Dichlorobromomethane	83	9.285	9.285	0.000	98	381390	50.0	50.7	
58 Methyl methacrylate	69	9.522	9.522	0.000	95	246007	100.0	93.4	
59 1,4-Dioxane	88	9.545	9.545	0.000	82	33160	1000.0	1082.3	M
60 2-Chloroethyl vinyl ether	63	10.031	10.031	0.000	91	118855	50.0	41.1	
61 cis-1,3-Dichloropropene	75	10.078	10.078	0.000	94	490138	50.0	49.3	
\$ 62 Toluene-d8 (Surr)	98	10.303	10.303	0.000	94	1316743	50.0	49.8	
63 Toluene	92	10.374	10.374	0.000	98	883344	50.0	45.0	
64 2-Nitropropane	43	10.670	10.670	0.000	98	75986	100.0	83.3	
65 Tetrachloroethene	164	10.823	10.823	0.000	95	312880	50.0	49.7	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	97	165860	50.0	45.2	
67 trans-1,3-Dichloropropene	75	10.882	10.882	0.000	95	377840	50.0	47.9	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	91	164412	50.0	46.7	
69 Ethyl methacrylate	69	11.095	11.095	0.000	84	240551	50.0	43.1	M
70 Chlorodibromomethane	129	11.249	11.249	0.000	90	222652	50.0	50.7	
71 1,3-Dichloropropane	76	11.356	11.356	0.000	95	363205	50.0	46.0	
72 Ethylene Dibromide	107	11.498	11.498	0.000	99	177597	50.0	47.2	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	292249	50.0	42.5	
74 2-Hexanone	43	11.770	11.770	0.000	95	115278	50.0	45.4	
* 76 Chlorobenzene-d5	117	12.030	12.030	0.000	89	865641	50.0	50.0	
75 1-Chlorohexane	91	12.042	12.042	0.000	89	616933	50.0	53.8	
77 Chlorobenzene	112	12.054	12.054	0.000	98	832160	50.0	48.1	
78 Ethylbenzene	91	12.089	12.089	0.000	99	1687258	50.0	45.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	94	268445	50.0	49.1	
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	649404	50.0	46.6	
82 o-Xylene	106	12.657	12.657	0.000	98	603952	50.0	47.2	
83 Styrene	104	12.717	12.717	0.000	95	890215	50.0	46.9	
84 Bromoform	173	12.728	12.728	0.000	96	102163	50.0	53.5	
85 Isopropylbenzene	105	12.965	12.965	0.000	97	1657407	50.0	47.1	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	86	412651	50.0	46.6	
87 Bromobenzene	156	13.320	13.320	0.000	95	310291	50.0	47.6	
88 N-Propylbenzene	91	13.356	13.356	0.000	98	1907596	50.0	48.2	
89 1,1,2,2-Tetrachloroethane	83	13.415	13.415	0.000	96	184345	50.0	44.8	
90 2-Chlorotoluene	91	13.486	13.486	0.000	96	1100162	50.0	47.3	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	94	1276016	50.0	47.3	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	84	56571	50.0	47.5	
93 trans-1,4-Dichloro-2-buten	53	13.580	13.580	0.000	88	66127	50.0	48.5	
94 Cyclohexanone	55	13.580	13.580	0.000	75	53116	500.0	455.6	
95 4-Chlorotoluene	91	13.640	13.640	0.000	99	1074119	50.0	46.8	
96 tert-Butylbenzene	119	13.817	13.817	0.000	93	1141016	50.0	47.7	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	1248330	50.0	47.3	
98 sec-Butylbenzene	105	13.983	13.983	0.000	95	1740920	50.0	48.1	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	1420468	50.0	49.1	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	98	606231	50.0	47.5	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	95	361388	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	93	577426	50.0	48.6	
119 1,2,3-Trimethylbenzene	105	14.267	14.267	0.000	99	1141593	50.0	47.6	
120 Benzyl chloride	126	14.480	14.480	0.000	90	74788	50.0	52.0	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	362472	50.0	50.2	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	97	518800	50.0	47.8	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	86	28872	50.0	47.1	
106 n-Nonyl Aldehyde	57	15.332	15.332	0.000	58	138616	50.0	42.7	
107 1,3,5-Trichlorobenzene	180	15.344	15.344	0.000	97	471494	50.0	52.0	
108 Hexachlorobutadiene	225	15.852	15.852	0.000	96	252409	50.0	54.6	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	94	368437	50.0	49.6	
110 Naphthalene	128	16.172	16.172	0.000	97	604723	50.0	47.7	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	95	293896	50.0	49.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 NewWkMix_00202

Amount Added: 10.00

Units: uL

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\\StLouis\\ChromData\\VMSX\\20170116-9564.b\\XCCV5169.D

Injection Date: 16-Jan-2017 17:43:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

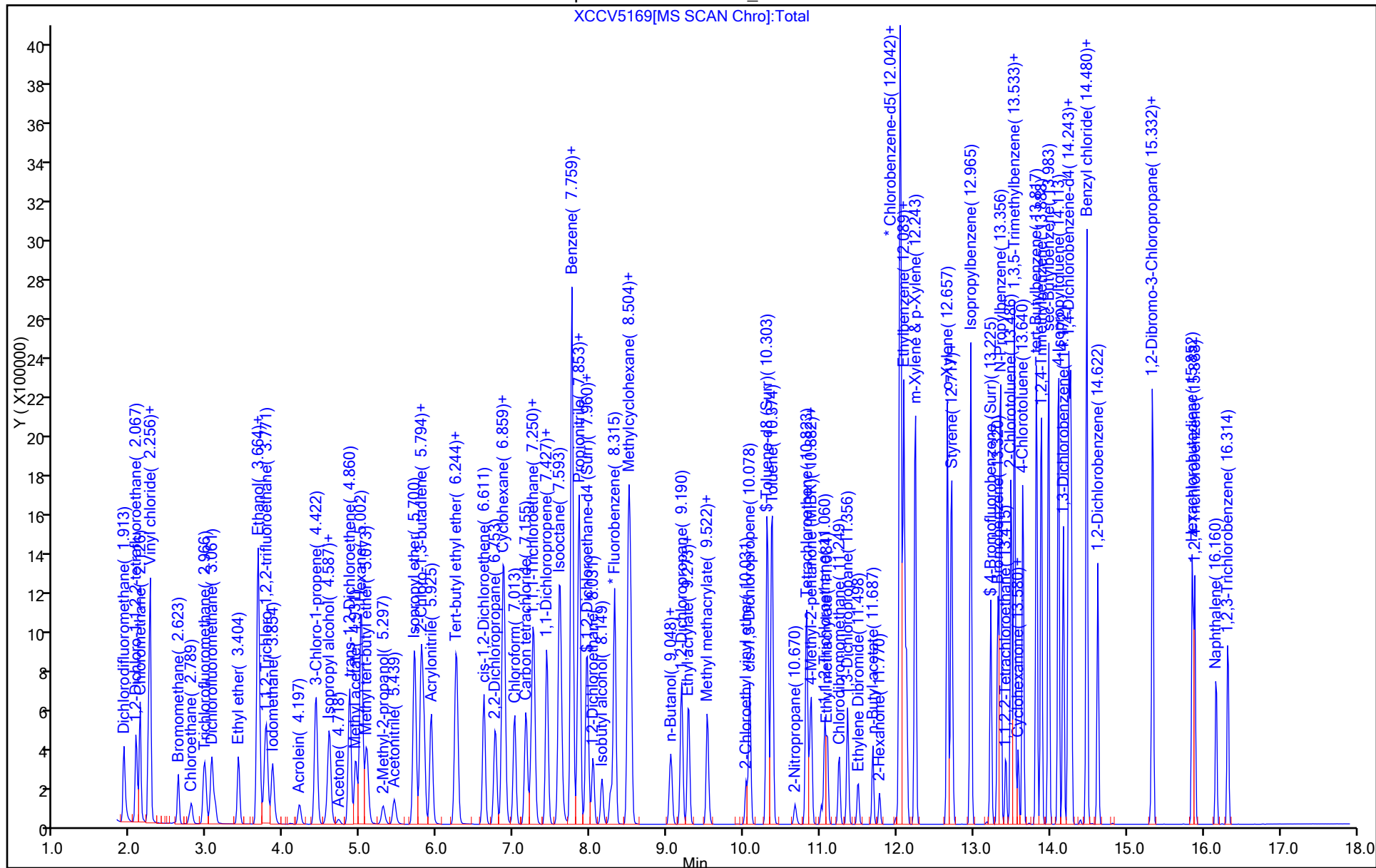
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XCCV5169.D

Injection Date: 16-Jan-2017 17:43:30

Instrument ID: VMSX

Lims ID: CCVIS

Client ID:

Operator ID: JDH

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector: MS SCAN

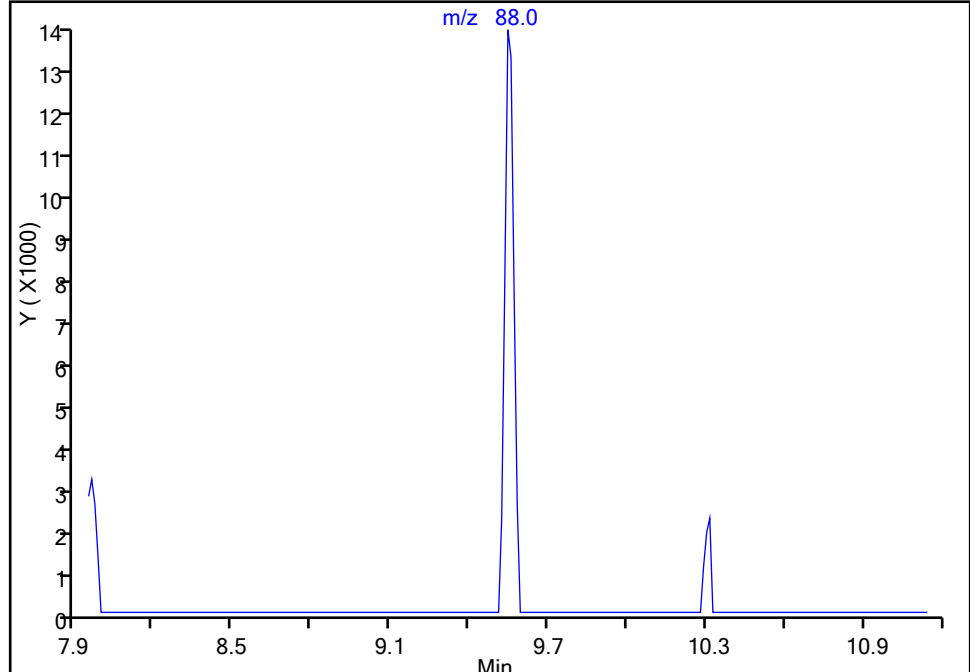
59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

Not Detected

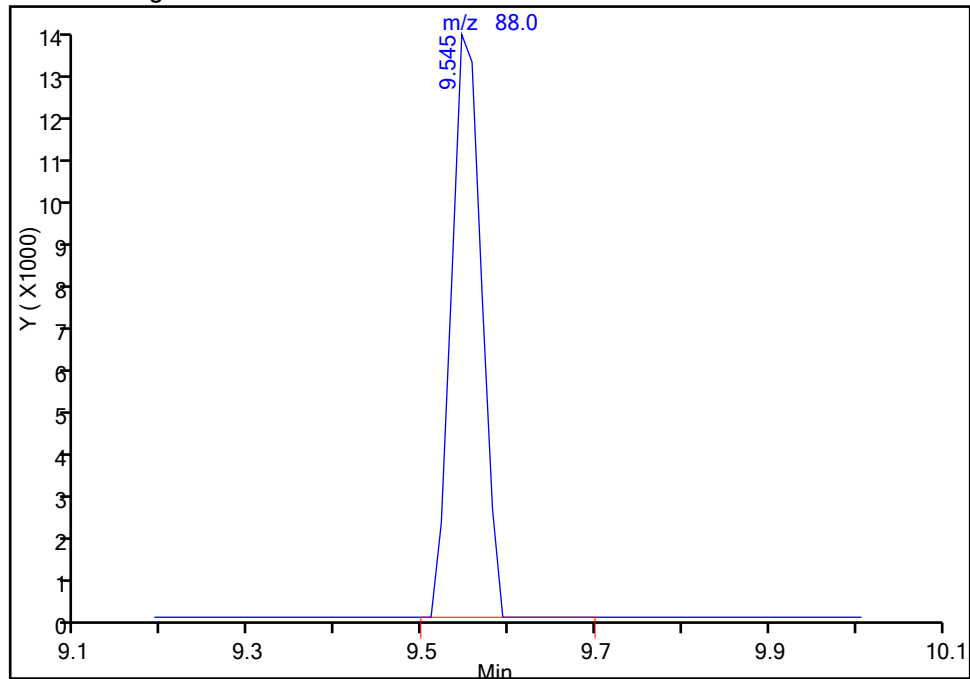
Expected RT: 9.55

Processing Integration Results



RT: 9.55
Area: 33160
Amount: 1082.3057
Amount Units: ug/l

Manual Integration Results



Reviewer: rhoadess, 24-Jan-2017 15:09:13

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XCCV5169.D

Injection Date: 16-Jan-2017 17:43:30

Instrument ID: VMSX

Lims ID: CCVIS

Client ID:

Operator ID: JDH

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector MS SCAN

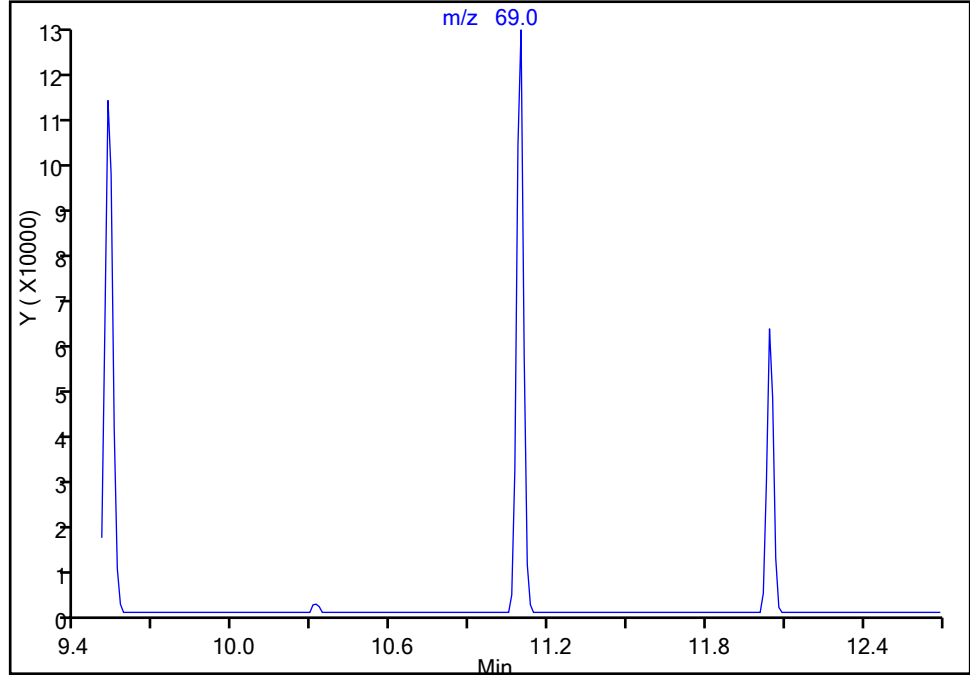
69 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

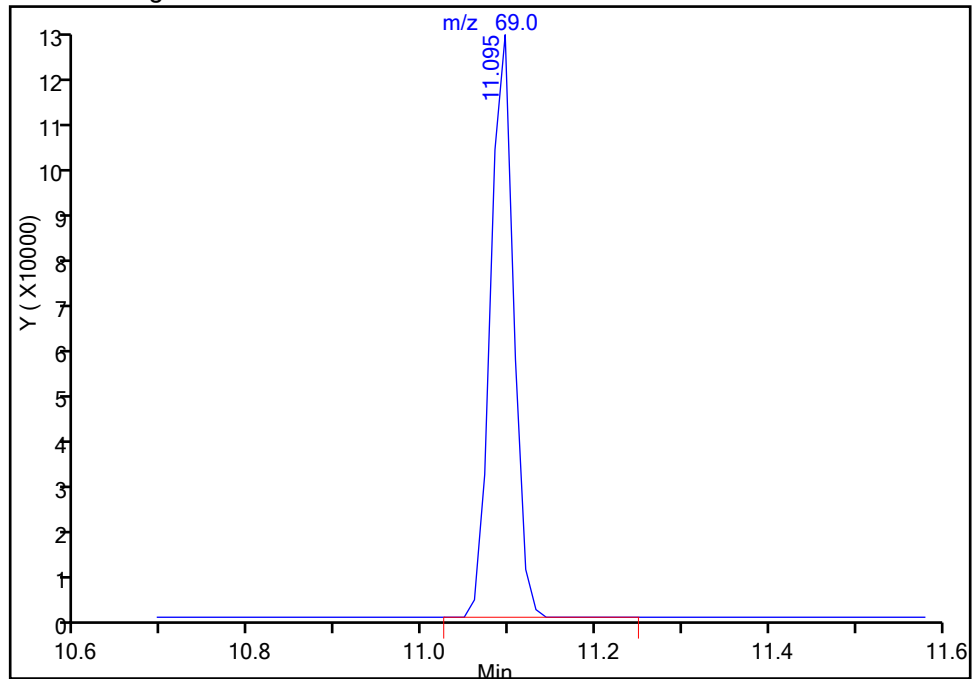
Not Detected

Expected RT: 11.10

Processing Integration Results



Manual Integration Results



RT: 11.10

Area: 240551

Amount: 43.050520

Amount Units: ug/l

Reviewer: rhoadess, 24-Jan-2017 15:09:13

Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Lab Sample ID: CCVC 160-287920/19 Calibration Date: 01/17/2017 00:34

Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20

Lab File ID: XCCV5185.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3425	0.3811	0.1000	55.6	50.0	11.2	50.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1757	0.1803	0.0100	51.3	50.0	2.6	50.0
Chloromethane	Ave	0.4639	0.4242	0.1000	45.7	50.0	-8.6	50.0
Vinyl chloride	Ave	0.3593	0.3466	0.1000	48.2	50.0	-3.5	50.0
Butadiene	Ave	0.3277	0.3401	0.0100	51.9	50.0	3.8	50.0
Bromomethane	Ave	0.1110	0.1145	0.1000	51.6	50.0	3.2	50.0
Chloroethane	Ave	0.1235	0.1085	0.1000	43.9	50.0	-12.1	50.0
Trichlorofluoromethane	Ave	0.3020	0.3227	0.1000	53.4	50.0	6.8	50.0
Dichlorofluoromethane	Ave	0.3424	0.3429	0.0100	50.1	50.0	0.1	50.0
Ethyl ether	Ave	0.1286	0.1233	0.0100	47.9	50.0	-4.2	50.0
Ethanol	Ave	0.0015	0.0015*	0.0100	1940	2000	-3.1	50.0
1,1-Dichloroethene	Ave	0.2910	0.2903	0.1000	49.9	50.0	-0.2	50.0
Carbon disulfide	Ave	1.006	0.9723	0.1000	48.3	50.0	-3.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2221	0.2302	0.1000	51.8	50.0	3.6	50.0
Iodomethane	Ave	0.3909	0.3959	0.0100	50.6	50.0	1.3	50.0
Acrolein	Ave	0.0270	0.0163	0.0010	151	250	-39.7	50.0
3-Chloro-1-propene	Ave	0.3556	0.3333	0.0100	46.9	50.0	-6.3	50.0
Isopropyl alcohol	Ave	0.0078	0.0067*	0.0100	431	500	-13.8	50.0
Methylene Chloride	Ave	0.2532	0.2433	0.1000	48.0	50.0	-3.9	50.0
Acetone	Lin1		0.0370*	0.1000	51.8	50.0	3.6	50.0
trans-1,2-Dichloroethene	Ave	0.3030	0.2930	0.1000	48.4	50.0	-3.3	50.0
Methyl acetate	Ave	0.0194	0.0181*	0.1000	233	250	-6.7	50.0
Hexane	Ave	0.1071	0.1006	0.0100	46.9	50.0	-6.1	50.0
Methyl tert-butyl ether	Ave	0.5070	0.4355	0.1000	42.9	50.0	-14.1	50.0
2-Methyl-2-propanol	Ave	0.0129	0.0103	0.0100	398	500	-20.4	50.0
Acetonitrile	Ave	0.0163	0.0152	0.0010	466	500	-6.8	50.0
Isopropyl ether	Ave	0.9550	0.8773	0.0100	45.9	50.0	-8.1	50.0
2-Chloro-1,3-butadiene	Ave	0.5888	0.5581	0.0100	47.4	50.0	-5.2	50.0
1,1-Dichloroethane	Ave	0.5651	0.5317	0.2000	47.0	50.0	-5.9	50.0
Acrylonitrile	Ave	0.0519	0.0468	0.0100	450	500	-9.9	50.0
Tert-butyl ethyl ether	Ave	0.7808	0.6739	0.0100	43.2	50.0	-13.7	50.0
Vinyl acetate	Ave	0.4481	0.3455	0.0100	38.6	50.0	-22.9	50.0
cis-1,2-Dichloroethene	Ave	0.2984	0.2884	0.1000	48.3	50.0	-3.4	50.0
2,2-Dichloropropane	Ave	0.3480	0.2887	0.0100	41.5	50.0	-17.0	50.0
Cyclohexane	Ave	0.5155	0.4847	0.1000	47.0	50.0	-6.0	50.0
Bromochloromethane	Ave	0.0946	0.0965	0.0100	51.0	50.0	2.0	50.0
Chloroform	Ave	0.4566	0.4414	0.2000	48.3	50.0	-3.3	50.0
Carbon tetrachloride	Ave	0.3739	0.3761	0.1000	50.3	50.0	0.6	50.0
Ethyl acetate	Ave	0.0193	0.0184	0.0100	95.0	100	-5.0	50.0
1,1,1-Trichloroethane	Ave	0.4329	0.4292	0.1000	49.6	50.0	-0.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Lab Sample ID: CCVC 160-287920/19 Calibration Date: 01/17/2017 00:34

Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20

Lab File ID: XCCV5185.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.4249	0.4051	0.0100	47.7	50.0	-4.7	50.0
2-Butanone (MEK)	Ave	0.0610	0.0561*	0.1000	46.0	50.0	-8.1	50.0
Isooctane	Ave	1.599	1.464	0.0100	45.8	50.0	-8.4	50.0
Benzene	Ave	1.173	1.061	0.5000	45.2	50.0	-9.6	50.0
n-Heptane	Ave	0.6555	0.6290	0.0100	48.0	50.0	-4.0	50.0
Propionitrile	Ave	0.0181	0.0168	0.0010	463	500	-7.4	50.0
Methacrylonitrile	Ave	0.0836	0.0808	0.0100	483	500	-3.4	50.0
Tert-amyl methyl ether	Ave	0.5301	0.4628	0.0100	43.7	50.0	-12.7	50.0
1,2-Dichloroethane	Ave	0.2706	0.2581	0.1000	47.7	50.0	-4.6	50.0
Isobutyl alcohol	Ave	0.0034	0.0030	0.0010	1090	1250	-13.1	50.0
Methylcyclohexane	Ave	0.5662	0.5323	0.1000	47.0	50.0	-6.0	50.0
Trichloroethene	Ave	0.2799	0.2821	0.2000	50.4	50.0	0.8	50.0
n-Butanol	Qua		0.0030*	0.0100	978	1250	-21.7	50.0
Dibromomethane	Ave	0.0989	0.0973	0.0100	49.2	50.0	-1.5	50.0
1,2-Dichloropropane	Ave	0.2868	0.2675	0.1000	46.6	50.0	-6.7	50.0
Ethyl acrylate	Ave	0.2041	0.1703	0.0100	41.7	50.0	-16.5	50.0
Bromodichloromethane	Ave	0.2819	0.2814	0.2000	49.9	50.0	-0.2	50.0
Methyl methacrylate	Ave	0.0987	0.0884	0.0100	89.6	100	-10.4	50.0
1,4-Dioxane	Lin1		0.0011	0.0010	981	1000	-1.9	50.0
2-Chloroethyl vinyl ether	Ave	0.1085	0.0828	0.0100	38.2	50.0	-23.6	50.0
cis-1,3-Dichloropropene	Ave	0.3726	0.3542	0.2000	47.5	50.0	-4.9	50.0
Toluene	Ave	1.134	1.020	0.4000	45.0	50.0	-10.1	50.0
2-Nitropropane	Qua		0.0365	0.0100	70.7	100	-29.3	50.0
Tetrachloroethene	Ave	0.3633	0.3540	0.2000	48.7	50.0	-2.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2119	0.1829	0.1000	43.2	50.0	-13.7	50.0
trans-1,3-Dichloropropene	Ave	0.4557	0.4179	0.1000	45.9	50.0	-8.3	50.0
1,1,2-Trichloroethane	Ave	0.2033	0.1873	0.1000	46.0	50.0	-7.9	50.0
Ethyl methacrylate	Ave	0.3227	0.2680	0.0100	41.5	50.0	-17.0	50.0
Dibromochloromethane	Ave	0.2537	0.2511	0.1000	49.5	50.0	-1.0	50.0
1,3-Dichloropropane	Ave	0.4560	0.4166	0.0100	45.7	50.0	-8.6	50.0
1,2-Dibromoethane	Ave	0.2174	0.2033	0.1000	46.8	50.0	-6.5	50.0
n-Butyl acetate	Ave	0.3974	0.3191	0.0100	40.2	50.0	-19.7	50.0
2-Hexanone	Ave	0.1467	0.1255	0.1000	42.7	50.0	-14.5	50.0
1-Chlorohexane	Ave	0.6626	0.6638	0.0100	50.1	50.0	0.2	50.0
Chlorobenzene	Ave	0.999	0.9784	0.5000	49.0	50.0	-2.1	50.0
Ethylbenzene	Ave	2.137	1.984	0.1000	46.4	50.0	-7.2	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3159	0.3104	0.0100	49.1	50.0	-1.8	50.0
m,p-Xylenes	Ave	0.8043	0.7391	0.1000	45.9	50.0	-8.1	50.0
o-Xylene	Ave	0.7389	0.6938	0.3000	47.0	50.0	-6.1	50.0
Styrene	Ave	1.097	1.016	0.3000	46.3	50.0	-7.4	50.0
Bromoform	Ave	0.2642	0.2599	0.1000	49.2	50.0	-1.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Lab Sample ID: CCVC 160-287920/19 Calibration Date: 01/17/2017 00:34
 Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29
 GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20
 Lab File ID: XCCV5185.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	4.864	4.681	0.1000	48.1	50.0	-3.8	50.0
Bromobenzene	Ave	0.9019	0.8710	0.0100	48.3	50.0	-3.4	50.0
N-Propylbenzene	Ave	5.474	5.317	0.0100	48.6	50.0	-2.9	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5694	0.4929	0.3000	43.3	50.0	-13.4	50.0
2-Chlorotoluene	Ave	3.219	3.058	0.0100	47.5	50.0	-5.0	50.0
1,3,5-Trimethylbenzene	Ave	3.730	3.567	0.0100	47.8	50.0	-4.4	50.0
1,2,3-Trichloropropane	Ave	0.1648	0.1539	0.0100	46.7	50.0	-6.6	50.0
Cyclohexanone	Ave	0.0161	0.0134	0.0010	416	500	-16.7	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1887	0.1417	0.0100	37.5	50.0	-24.9	50.0
4-Chlorotoluene	Ave	3.176	2.940	0.0100	46.3	50.0	-7.4	50.0
tert-Butylbenzene	Ave	3.306	3.265	0.0100	49.4	50.0	-1.2	50.0
1,2,4-Trimethylbenzene	Ave	3.654	3.471	0.0100	47.5	50.0	-5.0	50.0
sec-Butylbenzene	Ave	5.006	4.846	0.0100	48.4	50.0	-3.2	50.0
p-Isopropyltoluene	Ave	4.001	3.918	0.0100	49.0	50.0	-2.1	50.0
1,3-Dichlorobenzene	Ave	1.767	1.689	0.6000	47.8	50.0	-4.4	50.0
1,4-Dichlorobenzene	Ave	1.645	1.594	0.5000	48.5	50.0	-3.1	50.0
1,2,3-Trimethylbenzene	Ave	3.318	3.193	0.0100	48.1	50.0	-3.8	50.0
Benzyl chloride	Ave	0.1991	0.1625	0.0100	40.8	50.0	-18.4	50.0
n-Butylbenzene	Ave	1.000	0.9784	0.0100	48.9	50.0	-2.1	50.0
1,2-Dichlorobenzene	Ave	1.502	1.461	0.4000	48.6	50.0	-2.7	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.0848	0.0741	0.0500	43.6	50.0	-12.7	50.0
n-Nonyl Aldehyde	Lin1		0.3706	0.0100	41.4	50.0	-17.2	50.0
1,3,5-Trichlorobenzene	Ave	1.253	1.247	0.0100	49.7	50.0	-0.5	50.0
Hexachlorobutadiene	Ave	0.6394	0.6866	0.0100	53.7	50.0	7.4	50.0
1,2,4-Trichlorobenzene	Ave	1.028	0.9898	0.2000	48.1	50.0	-3.7	50.0
Naphthalene	Ave	1.756	1.597	0.0100	45.5	50.0	-9.0	50.0
1,2,3-Trichlorobenzene	Ave	0.8288	0.8040	0.0100	48.5	50.0	-3.0	50.0
Dibromofluoromethane (Surr)	Ave	0.1953	0.2123	0.0100	54.3	50.0	8.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2067	0.2156	0.0100	52.2	50.0	4.3	50.0
Toluene-d8 (Surr)	Ave	1.528	1.559	0.0100	51.0	50.0	2.0	50.0
4-Bromofluorobenzene (Surr)	Ave	1.224	1.173	0.0100	47.9	50.0	-4.1	50.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XCCV5185.D
 Lims ID: CCVC
 Client ID:
 Sample Type: CCVC
 Inject. Date: 17-Jan-2017 00:34:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-019
 Misc. Info.: CCVC
 Operator ID: JDH Instrument ID: VMSX
 Sublist: chrom-5mL-8260-MSX*sub15
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:20:17 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN

Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:19:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.913	1.913	0.000	99	490374	50.0	55.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.079	2.079	0.000	99	232087	50.0	51.3	
3 Chloromethane	50	2.126	2.126	0.000	99	545866	50.0	45.7	
4 Vinyl chloride	62	2.233	2.233	0.000	98	446049	50.0	48.2	
121 Butadiene	39	2.256	2.256	0.000	88	437682	50.0	51.9	
5 Bromomethane	94	2.623	2.623	0.000	92	147369	50.0	51.6	
6 Chloroethane	64	2.789	2.789	0.000	98	139617	50.0	43.9	
7 Trichlorofluoromethane	101	2.966	2.966	0.000	99	415224	50.0	53.4	
122 Dichlorofluoromethane	67	3.061	3.061	0.000	97	441212	50.0	50.1	
8 Ethyl ether	74	3.404	3.404	0.000	94	158652	50.0	47.9	
11 Ethanol	45	3.653	3.653	0.000	30	74878	2000.0	1938.5	
9 1,1-Dichloroethene	96	3.664	3.664	0.000	93	373647	50.0	49.9	
10 Carbon disulfide	76	3.664	3.664	0.000	100	1251302	50.0	48.3	
12 1,1,2-Trichloro-1,2,2-trif	151	3.771	3.771	0.000	93	296269	50.0	51.8	
13 Iodomethane	142	3.854	3.854	0.000	99	509473	50.0	50.6	
14 Acrolein	56	4.209	4.209	0.000	100	104953	250.0	150.8	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	91	428970	50.0	46.9	
16 Isopropyl alcohol	45	4.564	4.564	0.000	97	86616	500.0	431.1	
17 Methylene Chloride	84	4.599	4.599	0.000	98	313066	50.0	48.0	
18 Acetone	43	4.717	4.717	0.000	100	47600	50.0	51.8	
19 trans-1,2-Dichloroethene	96	4.859	4.859	0.000	95	377099	50.0	48.4	
20 Methyl acetate	74	4.942	4.942	0.000	99	116619	250.0	233.2	
21 Hexane	86	5.013	5.013	0.000	87	129395	50.0	46.9	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	94	560465	50.0	42.9	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	96	132130	500.0	398.1	
24 Acetonitrile	41	5.439	5.439	0.000	100	195878	500.0	465.9	
25 Isopropyl ether	45	5.711	5.711	0.000	95	1128988	50.0	45.9	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	93	718160	50.0	47.4	
S 26 1,2-Dichloroethene, Total	96				0			96.7	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	98	684201	50.0	47.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.924	5.924	0.000	98	601875	500.0	450.4	
30 Tert-butyl ethyl ether	59	6.244	6.244	0.000	98	867276	50.0	43.2	
31 Vinyl acetate	43	6.268	6.268	0.000	98	444668	50.0	38.6	
32 cis-1,2-Dichloroethene	96	6.611	6.611	0.000	82	371148	50.0	48.3	
33 2,2-Dichloropropane	77	6.765	6.765	0.000	92	371571	50.0	41.5	
34 Cyclohexane	84	6.871	6.871	0.000	93	623795	50.0	47.0	
35 Chlorobromomethane	128	6.883	6.883	0.000	94	124196	50.0	51.0	
36 Chloroform	83	7.013	7.013	0.000	95	568012	50.0	48.3	
37 Carbon tetrachloride	117	7.167	7.167	0.000	98	483957	50.0	50.3	
38 Tetrahydrofuran	71	7.226	7.226	0.000	91	32004	100.0	94.2	
39 Ethyl acetate	45	7.238	7.238	0.000	97	47282	100.0	95.0	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.262	0.000	92	273160	50.0	54.3	
40 1,1,1-Trichloroethane	97	7.262	7.262	0.000	98	552305	50.0	49.6	
42 1,1-Dichloropropene	75	7.427	7.427	0.000	95	521325	50.0	47.7	
43 2-Butanone (MEK)	43	7.451	7.451	0.000	99	72213	50.0	46.0	
124 Isooctane	57	7.605	7.605	0.000	96	1884356	50.0	45.8	
117 n-Heptane	43	7.759	7.759	0.000	97	809484	50.0	48.0	
44 Benzene	78	7.759	7.759	0.000	97	1364993	50.0	45.2	
45 Propionitrile	54	7.830	7.830	0.000	94	215675	500.0	463.2	
46 Methacrylonitrile	41	7.853	7.853	0.000	94	1039910	500.0	483.1	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	89	277434	50.0	52.2	
48 Tert-amyl methyl ether	73	7.960	7.960	0.000	95	595608	50.0	43.7	
49 1,2-Dichloroethane	62	8.043	8.043	0.000	97	332198	50.0	47.7	
50 Isobutyl alcohol	42	8.149	8.149	0.000	94	95667	1250.0	1085.8	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1286912	50.0	50.0	
52 Methylcyclohexane	55	8.504	8.504	0.000	94	684968	50.0	47.0	
53 Trichloroethene	95	8.528	8.528	0.000	97	363037	50.0	50.4	
54 n-Butanol	56	9.036	9.036	0.000	89	94763	1250.0	978.5	
55 Dibromomethane	93	9.060	9.060	0.000	97	125249	50.0	49.2	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	95	344283	50.0	46.6	
123 Ethyl acrylate	55	9.273	9.273	0.000	97	219180	50.0	41.7	
57 Dichlorobromomethane	83	9.285	9.285	0.000	99	362187	50.0	49.9	
58 Methyl methacrylate	69	9.533	9.533	0.000	95	227556	100.0	89.6	
59 1,4-Dioxane	88	9.557	9.557	0.000	89	28887	1000.0	980.8	M
60 2-Chloroethyl vinyl ether	63	10.030	10.030	0.000	92	106592	50.0	38.2	
61 cis-1,3-Dichloropropene	75	10.078	10.078	0.000	94	455785	50.0	47.5	
\$ 62 Toluene-d8 (Surr)	98	10.314	10.314	0.000	94	1298528	50.0	51.0	
63 Toluene	92	10.374	10.374	0.000	98	849290	50.0	45.0	
64 2-Nitropropane	43	10.669	10.669	0.000	97	60796	100.0	70.7	
65 Tetrachloroethene	164	10.823	10.823	0.000	96	294852	50.0	48.7	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	97	152308	50.0	43.2	
67 trans-1,3-Dichloropropene	75	10.882	10.882	0.000	96	348070	50.0	45.9	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	91	155978	50.0	46.0	
69 Ethyl methacrylate	69	11.095	11.095	0.000	85	223235	50.0	41.5	M
70 Chlorodibromomethane	129	11.249	11.249	0.000	91	209174	50.0	49.5	
71 1,3-Dichloropropane	76	11.356	11.356	0.000	95	346970	50.0	45.7	
72 Ethylene Dibromide	107	11.498	11.498	0.000	98	169329	50.0	46.8	
S 73 1,3-Dichloropropene, Total	75				0			93.4	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	265807	50.0	40.2	
74 2-Hexanone	43	11.770	11.770	0.000	96	104486	50.0	42.7	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	89	832888	50.0	50.0	
75 1-Chlorohexane	91	12.054	12.054	0.000	74	552880	50.0	50.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.054	12.054	0.000	97	814900	50.0	49.0	
78 Ethylbenzene	91	12.089	12.089	0.000	96	1652423	50.0	46.4	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	93	258526	50.0	49.1	
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	615601	50.0	45.9	
82 o-Xylene	106	12.657	12.657	0.000	98	577850	50.0	47.0	
83 Styrene	104	12.717	12.717	0.000	95	846358	50.0	46.3	
84 Bromoform	173	12.728	12.728	0.000	96	89315	50.0	49.2	
85 Isopropylbenzene	105	12.965	12.965	0.000	96	1608217	50.0	48.1	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	85	403132	50.0	47.9	
87 Bromobenzene	156	13.320	13.320	0.000	97	299283	50.0	48.3	
88 N-Propylbenzene	91	13.355	13.355	0.000	98	1826806	50.0	48.6	
89 1,1,2,2-Tetrachloroethane	83	13.426	13.426	0.000	96	169347	50.0	43.3	
90 2-Chlorotoluene	91	13.486	13.486	0.000	96	1050747	50.0	47.5	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	94	1225642	50.0	47.8	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	79	52872	50.0	46.7	
93 trans-1,4-Dichloro-2-buten	53	13.580	13.580	0.000	86	48680	50.0	37.5	
94 Cyclohexanone	55	13.580	13.580	0.000	84	46159	500.0	416.4	
95 4-Chlorotoluene	91	13.639	13.639	0.000	99	1010278	50.0	46.3	
96 tert-Butylbenzene	119	13.817	13.817	0.000	94	1121831	50.0	49.4	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	1192577	50.0	47.5	
98 sec-Butylbenzene	105	13.983	13.983	0.000	95	1665200	50.0	48.4	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	1346128	50.0	49.0	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	98	580328	50.0	47.8	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	96	343592	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	96	547790	50.0	48.5	
119 1,2,3-Trimethylbenzene	105	14.278	14.278	0.000	99	1097135	50.0	48.1	
120 Benzyl chloride	126	14.480	14.480	0.000	90	55829	50.0	40.8	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	336163	50.0	48.9	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	96	502078	50.0	48.6	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	86	25446	50.0	43.6	
106 n-Nonyl Aldehyde	57	15.332	15.332	0.000	59	127348	50.0	41.4	
107 1,3,5-Trichlorobenzene	180	15.343	15.343	0.000	97	428337	50.0	49.7	
108 Hexachlorobutadiene	225	15.852	15.852	0.000	96	235896	50.0	53.7	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	94	340087	50.0	48.1	
110 Naphthalene	128	16.172	16.172	0.000	97	548752	50.0	45.5	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	95	276238	50.0	48.5	
S 112 Xylenes, Total	106				0			92.9	
S 113 Trihalomethanes, Total	1				0			196.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 NewWkMix_00202

Amount Added: 10.00

Units: uL

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\MSX\20170116-9564.b\XCCV5185.D

Injection Date: 17-Jan-2017 00:34:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: CCVC

Worklist Smp#: 19

Client ID:

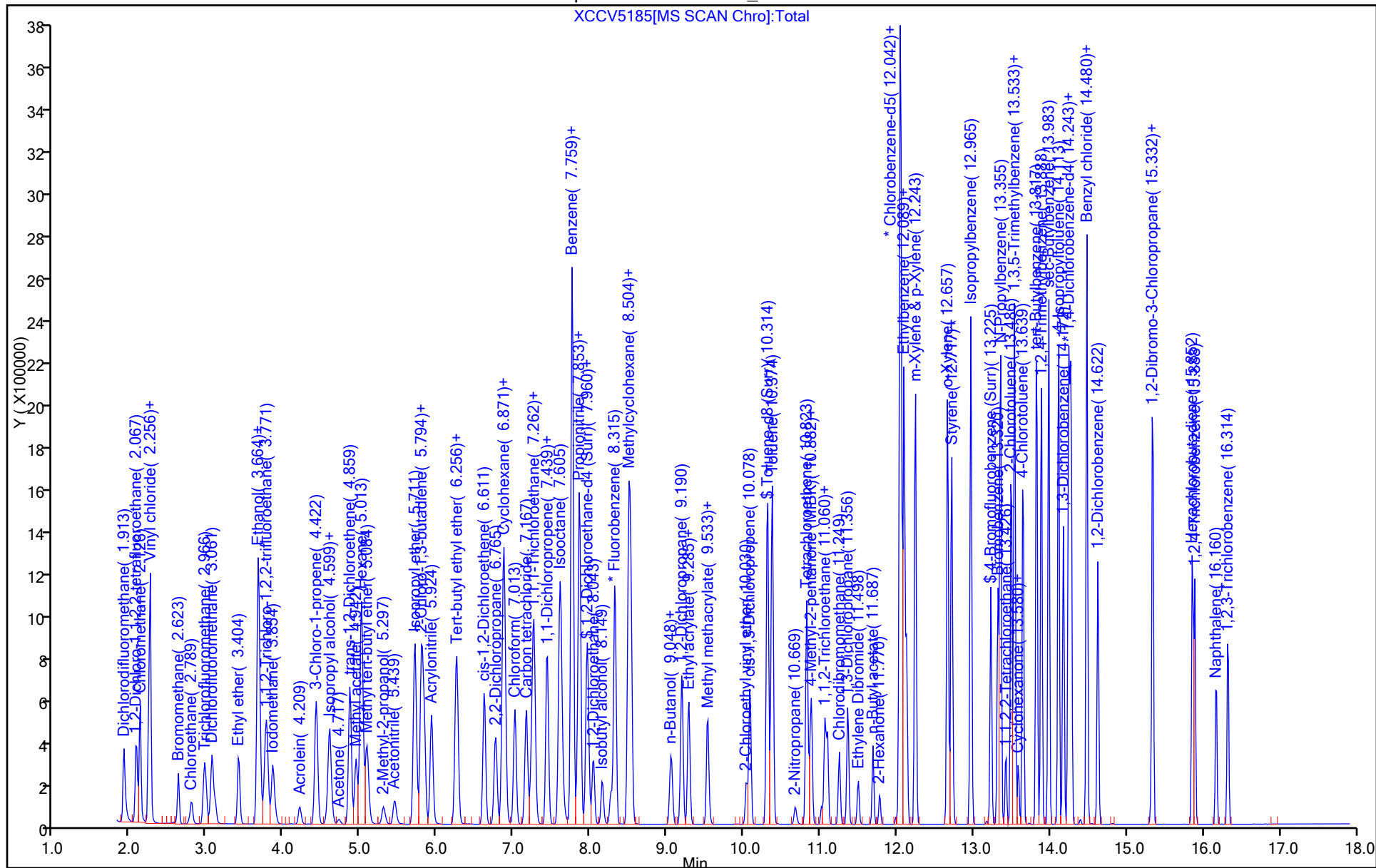
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 18

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XCCV5185.D

Injection Date: 17-Jan-2017 00:34:30

Instrument ID: VMSX

Lims ID: CCVC

Client ID:

Operator ID: JDH

ALS Bottle#: 18 Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector: MS SCAN

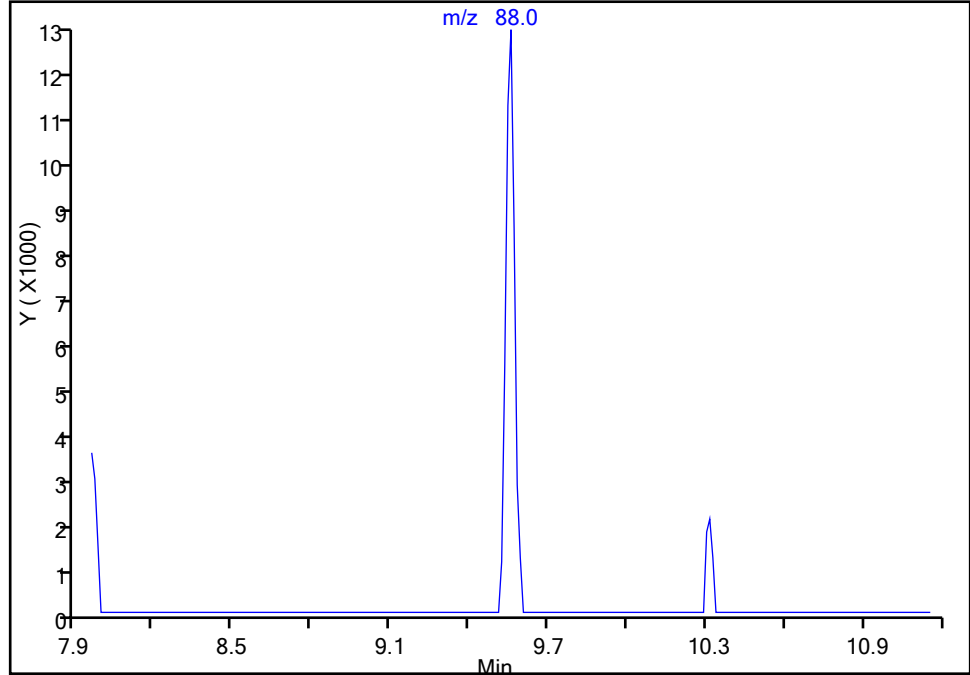
59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

Not Detected

Expected RT: 9.56

Processing Integration Results



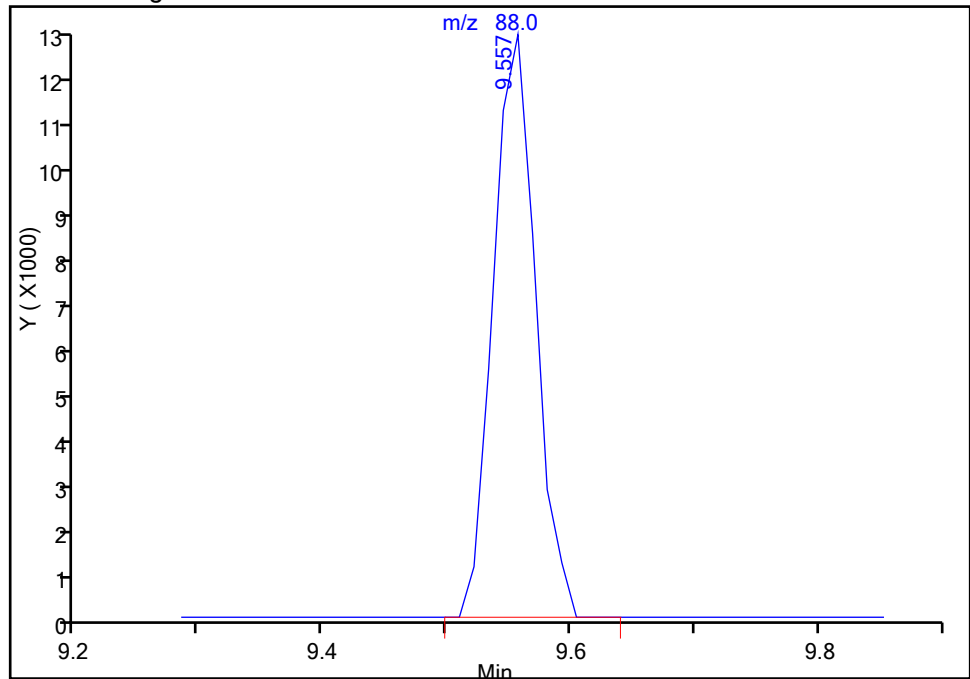
RT: 9.56

Area: 28887

Amount: 980.8253

Amount Units: ug/l

Manual Integration Results



Reviewer: rhoadess, 24-Jan-2017 15:19:59

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica St. Louis

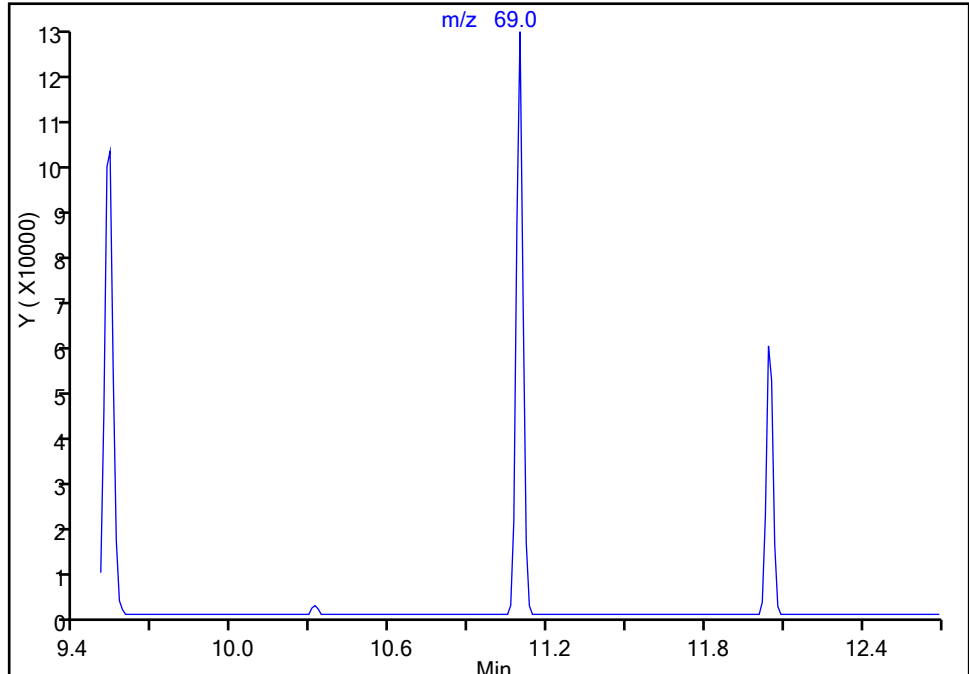
Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XCCV5185.D
Injection Date: 17-Jan-2017 00:34:30 Instrument ID: VMSX
Lims ID: CCVC
Client ID:
Operator ID: JDH ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

69 Ethyl methacrylate, CAS: 97-63-2

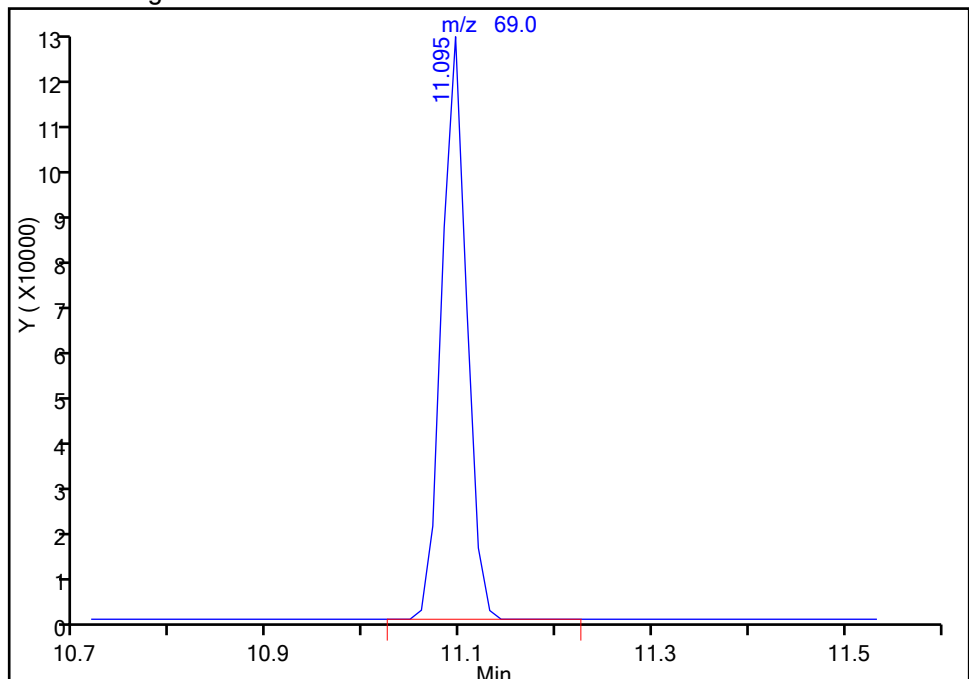
Signal: 1

Not Detected
Expected RT: 11.10

Processing Integration Results



Manual Integration Results



RT: 11.10
Area: 223235
Amount: 41.522619
Amount Units: ug/l

Reviewer: rhoadess, 24-Jan-2017 15:19:59

Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Lab Sample ID: CCV 160-288297/3 Calibration Date: 01/19/2017 14:45

Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20

Lab File ID: XCCV5232.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3425	0.3949	0.1000	57.6	50.0	15.3	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1757	0.1771	0.0100	50.4	50.0	0.8	20.0
Chloromethane	Ave	0.4639	0.4661	0.1000	50.2	50.0	0.5	20.0
Vinyl chloride	Ave	0.3593	0.3828	0.1000	53.3	50.0	6.5	20.0
Butadiene	Ave	0.3277	0.3516	0.0100	53.6	50.0	7.3	20.0
Bromomethane	Ave	0.1110	0.1262	0.1000	56.9	50.0	13.7	20.0
Chloroethane	Ave	0.1235	0.1251	0.1000	50.6	50.0	1.3	20.0
Trichlorofluoromethane	Ave	0.3020	0.3465	0.1000	57.4	50.0	14.7	20.0
Dichlorofluoromethane	Ave	0.3424	0.3683	0.0100	53.8	50.0	7.6	20.0
Ethyl ether	Ave	0.1286	0.1278	0.0100	49.7	50.0	-0.7	20.0
1,1-Dichloroethene	Ave	0.2910	0.2866	0.1000	49.2	50.0	-1.5	20.0
Ethanol	Ave	0.0015	0.0018*	0.0100	2330	2000	16.6	20.0
Carbon disulfide	Ave	1.006	1.002	0.1000	49.8	50.0	-0.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2221	0.2147	0.1000	48.3	50.0	-3.3	20.0
Iodomethane	Ave	0.3909	0.3803	0.0100	48.6	50.0	-2.7	20.0
Acrolein	Ave	0.0270	0.0224	0.0010	207	250	-17.3	20.0
3-Chloro-1-propene	Ave	0.3556	0.3456	0.0100	48.6	50.0	-2.8	20.0
Isopropyl alcohol	Ave	0.0078	0.0088*	0.0100	562	500	12.4	20.0
Methylene Chloride	Ave	0.2532	0.2459	0.1000	48.6	50.0	-2.9	20.0
Acetone	Lin1		0.0436*	0.1000	61.6	50.0	23.2*	20.0
trans-1,2-Dichloroethene	Ave	0.3030	0.2904	0.1000	47.9	50.0	-4.2	20.0
Methyl acetate	Ave	0.0194	0.0216*	0.1000	278	250	11.1	20.0
Hexane	Ave	0.1071	0.1035	0.0100	48.3	50.0	-3.4	20.0
Methyl tert-butyl ether	Ave	0.5070	0.4678	0.1000	46.1	50.0	-7.7	20.0
2-Methyl-2-propanol	Ave	0.0129	0.0136	0.0100	529	500	5.7	20.0
Acetonitrile	Ave	0.0163	0.0179	0.0010	548	500	9.6	20.0
Isopropyl ether	Ave	0.9550	0.8916	0.0100	46.7	50.0	-6.6	20.0
2-Chloro-1,3-butadiene	Ave	0.5888	0.5842	0.0100	49.6	50.0	-0.8	20.0
1,1-Dichloroethane	Ave	0.5651	0.5382	0.2000	47.6	50.0	-4.8	20.0
Acrylonitrile	Ave	0.0519	0.0568	0.0100	547	500	9.4	20.0
Tert-butyl ethyl ether	Ave	0.7808	0.7278	0.0100	46.6	50.0	-6.8	20.0
Vinyl acetate	Ave	0.4481	0.4612	0.0100	51.5	50.0	2.9	20.0
cis-1,2-Dichloroethene	Ave	0.2984	0.2805	0.1000	47.0	50.0	-6.0	20.0
2,2-Dichloropropane	Ave	0.3480	0.3252	0.0100	46.7	50.0	-6.6	20.0
Cyclohexane	Ave	0.5155	0.4893	0.1000	47.5	50.0	-5.1	20.0
Bromochloromethane	Ave	0.0946	0.0938	0.0100	49.6	50.0	-0.8	20.0
Chloroform	Ave	0.4566	0.4368	0.2000	47.8	50.0	-4.3	20.0
Carbon tetrachloride	Ave	0.3739	0.3790	0.1000	50.7	50.0	1.4	20.0
Ethyl acetate	Ave	0.0193	0.0221	0.0100	114	100	14.5	20.0
1,1,1-Trichloroethane	Ave	0.4329	0.4283	0.1000	49.5	50.0	-1.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Lab Sample ID: CCV 160-288297/3 Calibration Date: 01/19/2017 14:45

Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20

Lab File ID: XCCV5232.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.4249	0.4146	0.0100	48.8	50.0	-2.4	20.0
2-Butanone (MEK)	Ave	0.0610	0.0677*	0.1000	55.4	50.0	10.9	20.0
Isooctane	Ave	1.599	1.526	0.0100	47.7	50.0	-4.6	20.0
Benzene	Ave	1.173	1.062	0.5000	45.3	50.0	-9.5	20.0
n-Heptane	Ave	0.6555	0.6407	0.0100	48.9	50.0	-2.3	20.0
Propionitrile	Ave	0.0181	0.0205	0.0010	565	500	13.1	20.0
Methacrylonitrile	Ave	0.0836	0.0903	0.0100	540	500	7.9	20.0
Tert-amyl methyl ether	Ave	0.5301	0.4872	0.0100	46.0	50.0	-8.1	20.0
1,2-Dichloroethane	Ave	0.2706	0.2679	0.1000	49.5	50.0	-1.0	20.0
Isobutyl alcohol	Ave	0.0034	0.0036	0.0010	1320	1250	6.0	20.0
Methylcyclohexane	Ave	0.5662	0.5589	0.1000	49.4	50.0	-1.3	20.0
Trichloroethene	Ave	0.2799	0.2710	0.2000	48.4	50.0	-3.2	20.0
n-Butanol	Qua		0.0039*	0.0100	1260	1250	0.6	20.0
Dibromomethane	Ave	0.0989	0.1016	0.0100	51.4	50.0	2.7	20.0
1,2-Dichloropropane	Ave	0.2868	0.2738	0.1000	47.7	50.0	-4.5	20.0
Ethyl acrylate	Ave	0.2041	0.2062	0.0100	50.5	50.0	1.0	20.0
Bromodichloromethane	Ave	0.2819	0.2795	0.2000	49.6	50.0	-0.9	20.0
Methyl methacrylate	Ave	0.0987	0.1018	0.0100	103	100	3.1	20.0
1,4-Dioxane	Lin1		0.0013	0.0010	1150	1000	15.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1085	0.1005	0.0100	46.3	50.0	-7.4	20.0
cis-1,3-Dichloropropene	Ave	0.3726	0.3654	0.2000	49.0	50.0	-1.9	20.0
Toluene	Ave	1.134	1.032	0.4000	45.5	50.0	-9.0	20.0
2-Nitropropane	Qua		0.0515	0.0100	95.9	100	-4.1	20.0
Tetrachloroethene	Ave	0.3633	0.3520	0.2000	48.4	50.0	-3.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2119	0.2175	0.1000	51.3	50.0	2.7	20.0
trans-1,3-Dichloropropene	Ave	0.4557	0.4439	0.1000	48.7	50.0	-2.6	20.0
1,1,2-Trichloroethane	Ave	0.2033	0.1949	0.1000	47.9	50.0	-4.2	20.0
Ethyl methacrylate	Ave	0.3227	0.2997	0.0100	46.4	50.0	-7.1	20.0
Dibromochloromethane	Ave	0.2537	0.2564	0.1000	50.5	50.0	1.1	20.0
1,3-Dichloropropane	Ave	0.4560	0.4366	0.0100	47.9	50.0	-4.3	20.0
1,2-Dibromoethane	Ave	0.2174	0.2144	0.1000	49.3	50.0	-1.4	20.0
n-Butyl acetate	Ave	0.3974	0.3795	0.0100	47.8	50.0	-4.5	20.0
2-Hexanone	Ave	0.1467	0.1550	0.1000	52.8	50.0	5.6	20.0
1-Chlorohexane	Ave	0.6626	0.7414	0.0100	56.0	50.0	11.9	20.0
Chlorobenzene	Ave	0.999	0.9617	0.5000	48.1	50.0	-3.8	20.0
Ethylbenzene	Ave	2.137	1.953	0.1000	45.7	50.0	-8.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3159	0.3019	0.0100	47.8	50.0	-4.4	20.0
m,p-Xylenes	Ave	0.8043	0.7453	0.1000	46.3	50.0	-7.3	20.0
o-Xylene	Ave	0.7389	0.6895	0.3000	46.7	50.0	-6.7	20.0
Styrene	Ave	1.097	1.017	0.3000	46.3	50.0	-7.3	20.0
Bromoform	Ave	0.2642	0.2914	0.1000	55.2	50.0	10.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Lab Sample ID: CCV 160-288297/3 Calibration Date: 01/19/2017 14:45
 Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29
 GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20
 Lab File ID: XCCV5232.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	4.864	4.681	0.1000	48.1	50.0	-3.8	20.0
Bromobenzene	Ave	0.9019	0.8721	0.0100	48.3	50.0	-3.3	20.0
N-Propylbenzene	Ave	5.474	5.385	0.0100	49.2	50.0	-1.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5694	0.5602	0.3000	49.2	50.0	-1.6	20.0
2-Chlorotoluene	Ave	3.219	3.108	0.0100	48.3	50.0	-3.5	20.0
1,3,5-Trimethylbenzene	Ave	3.730	3.598	0.0100	48.2	50.0	-3.5	20.0
1,2,3-Trichloropropane	Ave	0.1648	0.1664	0.0100	50.5	50.0	1.0	20.0
Cyclohexanone	Ave	0.0161	0.0180	0.0010	557	500	11.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1887	0.1960	0.0100	51.9	50.0	3.9	20.0
4-Chlorotoluene	Ave	3.176	3.000	0.0100	47.2	50.0	-5.5	20.0
tert-Butylbenzene	Ave	3.306	3.187	0.0100	48.2	50.0	-3.6	20.0
1,2,4-Trimethylbenzene	Ave	3.654	3.493	0.0100	47.8	50.0	-4.4	20.0
sec-Butylbenzene	Ave	5.006	4.902	0.0100	49.0	50.0	-2.1	20.0
p-Isopropyltoluene	Ave	4.001	3.921	0.0100	49.0	50.0	-2.0	20.0
1,3-Dichlorobenzene	Ave	1.767	1.669	0.6000	47.2	50.0	-5.6	20.0
1,4-Dichlorobenzene	Ave	1.645	1.599	0.5000	48.6	50.0	-2.8	20.0
1,2,3-Trimethylbenzene	Ave	3.318	3.215	0.0100	48.4	50.0	-3.1	20.0
Benzyl chloride	Ave	0.1991	0.2229	0.0100	56.0	50.0	11.9	20.0
n-Butylbenzene	Ave	1.000	0.996	0.0100	49.8	50.0	-0.4	20.0
1,2-Dichlorobenzene	Ave	1.502	1.436	0.4000	47.8	50.0	-4.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0848	0.0859	0.0500	50.6	50.0	1.2	20.0
n-Nonyl Aldehyde	Lin1		0.3986	0.0100	44.3	50.0	-11.4	20.0
1,3,5-Trichlorobenzene	Ave	1.253	1.281	0.0100	51.1	50.0	2.2	20.0
Hexachlorobutadiene	Ave	0.6394	0.6787	0.0100	53.1	50.0	6.2	20.0
1,2,4-Trichlorobenzene	Ave	1.028	1.008	0.2000	49.0	50.0	-2.0	20.0
Naphthalene	Ave	1.756	1.781	0.0100	50.7	50.0	1.4	20.0
1,2,3-Trichlorobenzene	Ave	0.8288	0.8341	0.0100	50.3	50.0	0.6	20.0
Dibromofluoromethane (Surr)	Ave	0.1953	0.2024	0.0100	51.8	50.0	3.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2067	0.2200	0.0100	53.2	50.0	6.5	20.0
Toluene-d8 (Surr)	Ave	1.528	1.538	0.0100	50.3	50.0	0.6	20.0
4-Bromofluorobenzene (Surr)	Ave	1.224	1.173	0.0100	47.9	50.0	-4.2	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XCCV5232.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 19-Jan-2017 14:45:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009590-003
 Misc. Info.: CCVIS
 Operator ID: JDH Instrument ID: VMSX
 Sublist: chrom-5mL-8260-MSX*sub15
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Jan-2017 14:17:26 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN

Process Host: XAWRK005

First Level Reviewer: hannj

Date: 23-Jan-2017 14:17:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.913	1.913	0.000	99	467938	50.0	57.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.067	2.067	0.000	99	209867	50.0	50.4	
3 Chloromethane	50	2.126	2.126	0.000	99	552234	50.0	50.2	
4 Vinyl chloride	62	2.233	2.233	0.000	98	453580	50.0	53.3	
121 Butadiene	39	2.256	2.256	0.000	86	416559	50.0	53.6	
5 Bromomethane	94	2.623	2.623	0.000	92	149498	50.0	56.9	
6 Chloroethane	64	2.789	2.789	0.000	99	148172	50.0	50.6	
7 Trichlorofluoromethane	101	2.954	2.954	0.000	98	410576	50.0	57.4	
122 Dichlorofluoromethane	67	3.061	3.061	0.000	97	436443	50.0	53.8	
8 Ethyl ether	74	3.404	3.404	0.000	95	151367	50.0	49.7	
11 Ethanol	45	3.653	3.653	0.000	31	82928	2000.0	2331.7	
9 1,1-Dichloroethene	96	3.653	3.653	0.000	92	339540	50.0	49.2	
10 Carbon disulfide	76	3.664	3.664	0.000	100	1187794	50.0	49.8	
12 1,1,2-Trichloro-1,2,2-trif	151	3.771	3.771	0.000	95	254411	50.0	48.3	
13 Iodomethane	142	3.854	3.854	0.000	99	450616	50.0	48.6	
14 Acrolein	56	4.197	4.197	0.000	99	132497	250.0	206.8	
15 3-Chloro-1-propene	39	4.410	4.410	0.000	92	409480	50.0	48.6	
16 Isopropyl alcohol	45	4.552	4.552	0.000	98	103930	500.0	561.9	
17 Methylene Chloride	84	4.587	4.587	0.000	99	291378	50.0	48.6	
18 Acetone	43	4.706	4.706	0.000	99	51695	50.0	61.6	
19 trans-1,2-Dichloroethene	96	4.859	4.859	0.000	94	344059	50.0	47.9	
20 Methyl acetate	74	4.930	4.930	0.000	99	127916	250.0	277.8	
21 Hexane	86	5.013	5.013	0.000	86	122591	50.0	48.3	
22 Methyl tert-butyl ether	73	5.072	5.072	0.000	89	554231	50.0	46.1	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	98	161532	500.0	528.6	
24 Acetonitrile	41	5.439	5.439	0.000	99	212097	500.0	547.9	
25 Isopropyl ether	45	5.700	5.700	0.000	96	1056418	50.0	46.7	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	93	692200	50.0	49.6	
28 1,1-Dichloroethane	63	5.818	5.818	0.000	96	637655	50.0	47.6	
29 Acrylonitrile	53	5.924	5.924	0.000	99	672802	500.0	546.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	6.244	6.244	0.000	99	862363	50.0	46.6	
31 Vinyl acetate	43	6.256	6.256	0.000	97	546425	50.0	51.5	
32 cis-1,2-Dichloroethene	96	6.611	6.611	0.000	83	332302	50.0	47.0	
33 2,2-Dichloropropane	77	6.753	6.753	0.000	92	385332	50.0	46.7	
34 Cyclohexane	84	6.859	6.859	0.000	92	579739	50.0	47.5	
35 Chlorobromomethane	128	6.883	6.883	0.000	92	111189	50.0	49.6	
36 Chloroform	83	7.013	7.013	0.000	94	517542	50.0	47.8	
37 Carbon tetrachloride	117	7.155	7.155	0.000	98	449058	50.0	50.7	
38 Tetrahydrofuran	71	7.214	7.214	0.000	90	34987	100.0	111.9	
39 Ethyl acetate	45	7.226	7.226	0.000	98	52425	100.0	114.5	
\$ 41 Dibromofluoromethane (Surr	113	7.250	7.250	0.000	92	239835	50.0	51.8	
40 1,1,1-Trichloroethane	97	7.262	7.262	0.000	98	507425	50.0	49.5	
42 1,1-Dichloropropene	75	7.427	7.427	0.000	95	491289	50.0	48.8	
43 2-Butanone (MEK)	43	7.451	7.451	0.000	99	80195	50.0	55.4	
124 Isooctane	57	7.593	7.593	0.000	96	1808519	50.0	47.7	
117 n-Heptane	43	7.759	7.759	0.000	80	759109	50.0	48.9	
44 Benzene	78	7.759	7.759	0.000	97	1258238	50.0	45.3	
45 Propionitrile	54	7.830	7.830	0.000	96	242425	500.0	565.4	
46 Methacrylonitrile	41	7.853	7.853	0.000	93	1069541	500.0	539.6	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	88	260689	50.0	53.2	
48 Tert-amyl methyl ether	73	7.960	7.960	0.000	96	577291	50.0	46.0	
49 1,2-Dichloroethane	62	8.031	8.031	0.000	97	317437	50.0	49.5	
50 Isobutyl alcohol	42	8.149	8.149	0.000	94	107463	1250.0	1324.7	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1184891	50.0	50.0	
52 Methylcyclohexane	55	8.492	8.492	0.000	95	662209	50.0	49.4	
53 Trichloroethene	95	8.528	8.528	0.000	97	321102	50.0	48.4	
54 n-Butanol	56	9.036	9.036	0.000	87	114469	1250.0	1257.0	
55 Dibromomethane	93	9.048	9.048	0.000	96	120340	50.0	51.4	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	96	324414	50.0	47.7	
123 Ethyl acrylate	55	9.273	9.273	0.000	98	244319	50.0	50.5	
57 Dichlorobromomethane	83	9.285	9.285	0.000	99	331123	50.0	49.6	
58 Methyl methacrylate	69	9.522	9.522	0.000	95	241209	100.0	103.1	
59 1,4-Dioxane	88	9.545	9.545	0.000	81	31472	1000.0	1153.9	M
60 2-Chloroethyl vinyl ether	63	10.030	10.030	0.000	91	119063	50.0	46.3	
61 cis-1,3-Dichloropropene	75	10.078	10.078	0.000	94	432933	50.0	49.0	
\$ 62 Toluene-d8 (Surr)	98	10.303	10.303	0.000	94	1168186	50.0	50.3	
63 Toluene	92	10.374	10.374	0.000	98	784127	50.0	45.5	
64 2-Nitropropane	43	10.669	10.669	0.000	98	78209	100.0	95.9	
65 Tetrachloroethene	164	10.823	10.823	0.000	97	267387	50.0	48.4	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	96	165244	50.0	51.3	
67 trans-1,3-Dichloropropene	75	10.882	10.882	0.000	95	337196	50.0	48.7	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	93	148032	50.0	47.9	
69 Ethyl methacrylate	69	11.095	11.095	0.000	82	227678	50.0	46.4	
70 Chlorodibromomethane	129	11.249	11.249	0.000	91	194772	50.0	50.5	
71 1,3-Dichloropropane	76	11.356	11.356	0.000	94	331627	50.0	47.9	
72 Ethylene Dibromide	107	11.486	11.486	0.000	98	162824	50.0	49.3	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	288303	50.0	47.8	
74 2-Hexanone	43	11.770	11.770	0.000	96	117722	50.0	52.8	
* 76 Chlorobenzene-d5	117	12.030	12.030	0.000	89	759616	50.0	50.0	
75 1-Chlorohexane	91	12.042	12.042	0.000	92	563203	50.0	56.0	
77 Chlorobenzene	112	12.054	12.054	0.000	96	730502	50.0	48.1	
78 Ethylbenzene	91	12.089	12.089	0.000	99	1483288	50.0	45.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	94	229356	50.0	47.8	
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	566123	50.0	46.3	
82 o-Xylene	106	12.657	12.657	0.000	98	523789	50.0	46.7	
83 Styrene	104	12.717	12.717	0.000	95	772431	50.0	46.3	
84 Bromoform	173	12.728	12.728	0.000	94	91420	50.0	55.2	
85 Isopropylbenzene	105	12.965	12.965	0.000	97	1468414	50.0	48.1	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	84	368014	50.0	47.9	
87 Bromobenzene	156	13.320	13.320	0.000	95	273565	50.0	48.3	
88 N-Propylbenzene	91	13.356	13.356	0.000	99	1689387	50.0	49.2	
89 1,1,2,2-Tetrachloroethane	83	13.415	13.415	0.000	95	175735	50.0	49.2	
90 2-Chlorotoluene	91	13.486	13.486	0.000	96	974866	50.0	48.3	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	94	1128632	50.0	48.2	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	84	52202	50.0	50.5	
93 trans-1,4-Dichloro-2-buten	53	13.580	13.580	0.000	88	61487	50.0	51.9	
94 Cyclohexanone	55	13.580	13.580	0.000	79	56379	500.0	557.1	
95 4-Chlorotoluene	91	13.640	13.640	0.000	99	941104	50.0	47.2	
96 tert-Butylbenzene	119	13.817	13.817	0.000	93	999915	50.0	48.2	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	1095805	50.0	47.8	
98 sec-Butylbenzene	105	13.983	13.983	0.000	95	1537671	50.0	49.0	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	1230135	50.0	49.0	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	98	523604	50.0	47.2	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	96	313701	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	93	501483	50.0	48.6	
119 1,2,3-Trimethylbenzene	105	14.267	14.267	0.000	99	1008614	50.0	48.4	
120 Benzyl chloride	126	14.480	14.480	0.000	90	69910	50.0	56.0	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	312525	50.0	49.8	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	96	450461	50.0	47.8	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	85	26935	50.0	50.6	
106 n-Nonyl Aldehyde	57	15.332	15.332	0.000	59	125028	50.0	44.3	
107 1,3,5-Trichlorobenzene	180	15.343	15.343	0.000	98	401979	50.0	51.1	
108 Hexachlorobutadiene	225	15.852	15.852	0.000	96	212911	50.0	53.1	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	94	316112	50.0	49.0	
110 Naphthalene	128	16.172	16.172	0.000	98	558697	50.0	50.7	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	95	261654	50.0	50.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 NewWkMix_00202

Amount Added: 10.00

Units: uL

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\MSX\20170119-9590.b\XCCV5232.D

Injection Date: 19-Jan-2017 14:45:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

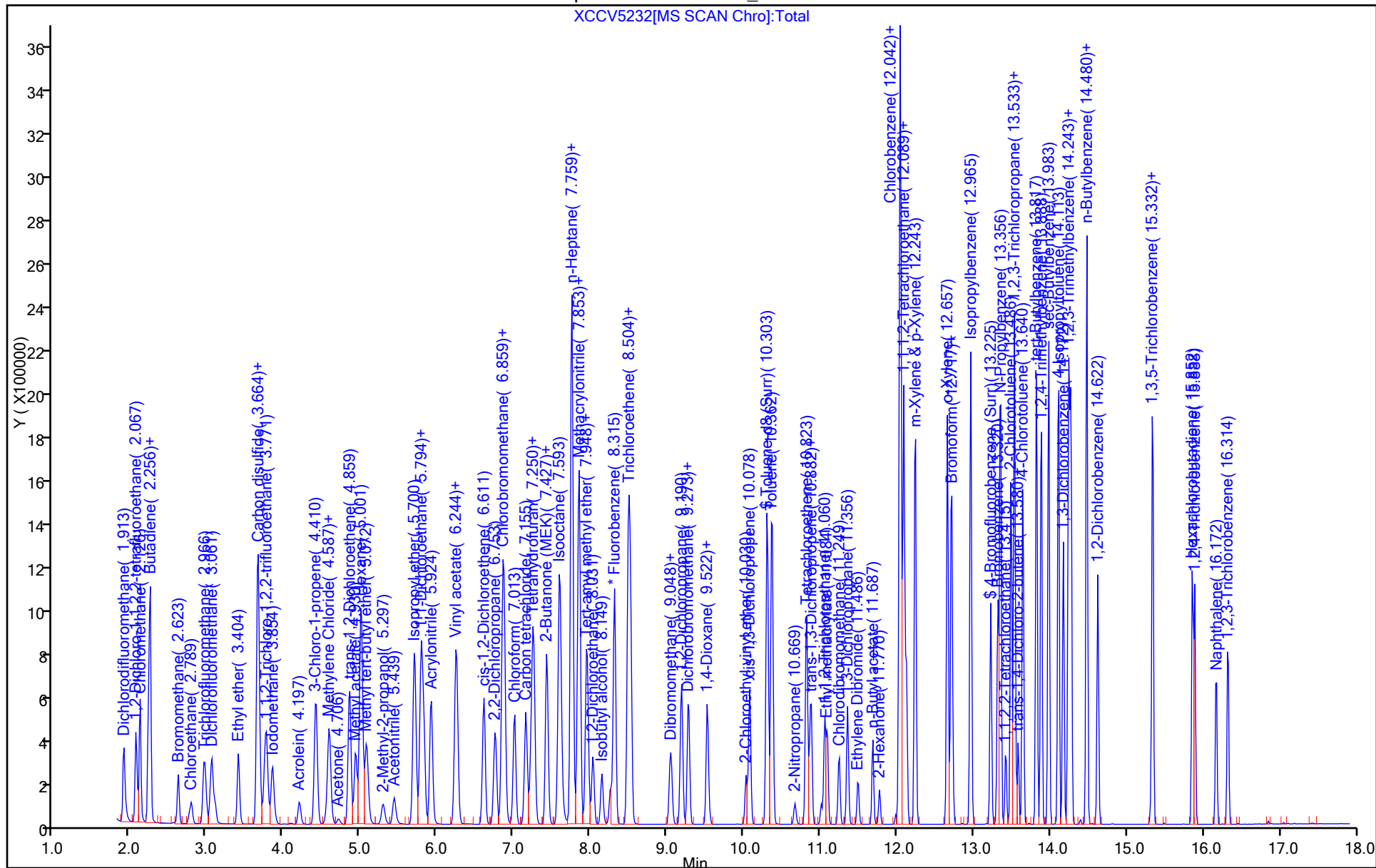
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XCCV5232.D

Injection Date: 19-Jan-2017 14:45:30

Instrument ID: VMSX

Lims ID: CCVIS

Client ID:

Operator ID: JDH

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector: MS SCAN

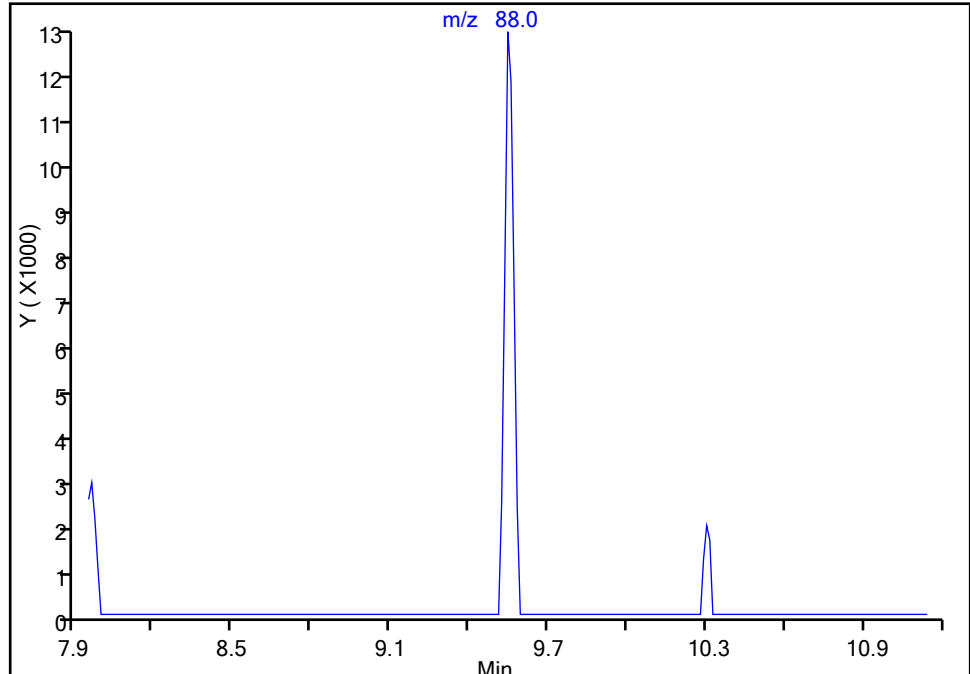
59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

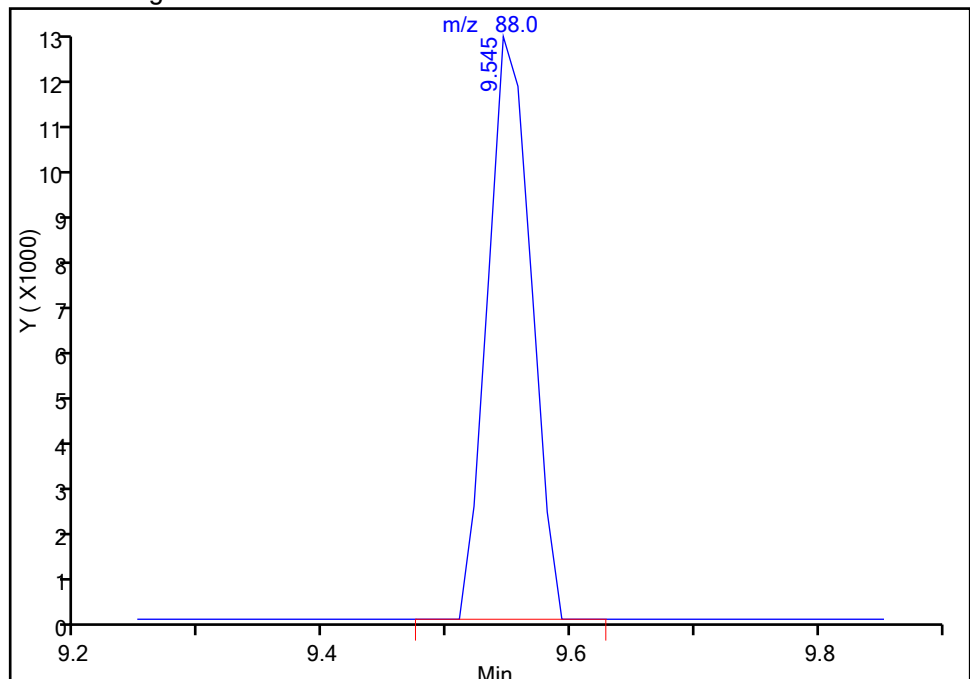
Not Detected

Expected RT: 9.55

Processing Integration Results



Manual Integration Results



RT: 9.55

Area: 31472

Amount: 1153.9184

Amount Units: ug/l

Reviewer: hannj, 23-Jan-2017 14:17:26

Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Lab Sample ID: CCVC 160-288297/20 Calibration Date: 01/19/2017 22:41

Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20

Lab File ID: XCCV5249.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3425	0.3659	0.1000	53.4	50.0	6.8	50.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1757	0.1656	0.0100	47.1	50.0	-5.8	50.0
Chloromethane	Ave	0.4639	0.4581	0.1000	49.4	50.0	-1.3	50.0
Vinyl chloride	Ave	0.3593	0.3478	0.1000	48.4	50.0	-3.2	50.0
Butadiene	Ave	0.3277	0.3336	0.0100	50.9	50.0	1.8	50.0
Bromomethane	Ave	0.1110	0.1210	0.1000	54.5	50.0	9.1	50.0
Chloroethane	Ave	0.1235	0.1197	0.1000	48.5	50.0	-3.0	50.0
Trichlorofluoromethane	Ave	0.3020	0.3428	0.1000	56.8	50.0	13.5	50.0
Dichlorofluoromethane	Ave	0.3424	0.3603	0.0100	52.6	50.0	5.2	50.0
Ethyl ether	Ave	0.1286	0.1304	0.0100	50.7	50.0	1.4	50.0
1,1-Dichloroethene	Ave	0.2910	0.2910	0.1000	50.0	50.0	-0.0	50.0
Ethanol	Ave	0.0015	0.0018*	0.0100	2350	2000	17.7	50.0
Carbon disulfide	Ave	1.006	0.9763	0.1000	48.5	50.0	-2.9	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2221	0.2176	0.1000	49.0	50.0	-2.1	50.0
Iodomethane	Ave	0.3909	0.3829	0.0100	49.0	50.0	-2.0	50.0
Acrolein	Ave	0.0270	0.0197	0.0010	182	250	-27.2	50.0
3-Chloro-1-propene	Ave	0.3556	0.3546	0.0100	49.9	50.0	-0.3	50.0
Isopropyl alcohol	Ave	0.0078	0.0089*	0.0100	569	500	13.7	50.0
Methylene Chloride	Ave	0.2532	0.2508	0.1000	49.5	50.0	-0.9	50.0
Acetone	Lin1		0.0431*	0.1000	60.8	50.0	21.6	50.0
trans-1,2-Dichloroethene	Ave	0.3030	0.2940	0.1000	48.5	50.0	-3.0	50.0
Methyl acetate	Ave	0.0194	0.0206*	0.1000	265	250	6.1	50.0
Hexane	Ave	0.1071	0.1048	0.0100	48.9	50.0	-2.1	50.0
Methyl tert-butyl ether	Ave	0.5070	0.4813	0.1000	47.5	50.0	-5.1	50.0
2-Methyl-2-propanol	Ave	0.0129	0.0143	0.0100	555	500	11.1	50.0
Acetonitrile	Ave	0.0163	0.0178	0.0010	545	500	9.1	50.0
Isopropyl ether	Ave	0.9550	0.9775	0.0100	51.2	50.0	2.4	50.0
2-Chloro-1,3-butadiene	Ave	0.5888	0.6005	0.0100	51.0	50.0	2.0	50.0
1,1-Dichloroethane	Ave	0.5651	0.5596	0.2000	49.5	50.0	-1.0	50.0
Acrylonitrile	Ave	0.0519	0.0547	0.0100	527	500	5.4	50.0
Tert-butyl ethyl ether	Ave	0.7808	0.7741	0.0100	49.6	50.0	-0.8	50.0
Vinyl acetate	Ave	0.4481	0.3988	0.0100	44.5	50.0	-11.0	50.0
cis-1,2-Dichloroethene	Ave	0.2984	0.2922	0.1000	49.0	50.0	-2.1	50.0
2,2-Dichloropropane	Ave	0.3480	0.2963	0.0100	42.6	50.0	-14.9	50.0
Cyclohexane	Ave	0.5155	0.5011	0.1000	48.6	50.0	-2.8	50.0
Bromochloromethane	Ave	0.0946	0.0962	0.0100	50.8	50.0	1.7	50.0
Chloroform	Ave	0.4566	0.4558	0.2000	49.9	50.0	-0.2	50.0
Carbon tetrachloride	Ave	0.3739	0.3878	0.1000	51.9	50.0	3.7	50.0
Ethyl acetate	Ave	0.0193	0.0217	0.0100	112	100	12.0	50.0
1,1,1-Trichloroethane	Ave	0.4329	0.4403	0.1000	50.9	50.0	1.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Lab Sample ID: CCVC 160-288297/20 Calibration Date: 01/19/2017 22:41

Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29

GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20

Lab File ID: XCCV5249.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.4249	0.4232	0.0100	49.8	50.0	-0.4	50.0
2-Butanone (MEK)	Ave	0.0610	0.0679*	0.1000	55.6	50.0	11.2	50.0
Isooctane	Ave	1.599	1.591	0.0100	49.8	50.0	-0.5	50.0
Benzene	Ave	1.173	1.101	0.5000	46.9	50.0	-6.2	50.0
n-Heptane	Ave	0.6555	0.6823	0.0100	52.0	50.0	4.1	50.0
Propionitrile	Ave	0.0181	0.0201	0.0010	555	500	11.1	50.0
Methacrylonitrile	Ave	0.0836	0.0905	0.0100	541	500	8.2	50.0
Tert-amyl methyl ether	Ave	0.5301	0.5183	0.0100	48.9	50.0	-2.2	50.0
1,2-Dichloroethane	Ave	0.2706	0.2778	0.1000	51.3	50.0	2.7	50.0
Isobutyl alcohol	Ave	0.0034	0.0039	0.0010	1420	1250	13.7	50.0
Methylcyclohexane	Ave	0.5662	0.5821	0.1000	51.4	50.0	2.8	50.0
Trichloroethene	Ave	0.2799	0.2870	0.2000	51.3	50.0	2.5	50.0
n-Butanol	Qua		0.0041*	0.0100	1320	1250	5.2	50.0
Dibromomethane	Ave	0.0989	0.1034	0.0100	52.3	50.0	4.6	50.0
1,2-Dichloropropane	Ave	0.2868	0.2907	0.1000	50.7	50.0	1.4	50.0
Bromodichloromethane	Ave	0.2819	0.2931	0.2000	52.0	50.0	3.9	50.0
Ethyl acrylate	Ave	0.2041	0.2127	0.0100	52.1	50.0	4.2	50.0
Methyl methacrylate	Ave	0.0987	0.1035	0.0100	105	100	4.8	50.0
1,4-Dioxane	Lin1		0.0014	0.0010	1200	1000	19.8	50.0
2-Chloroethyl vinyl ether	Ave	0.1085	0.1036	0.0100	47.8	50.0	-4.5	50.0
cis-1,3-Dichloropropene	Ave	0.3726	0.3793	0.2000	50.9	50.0	1.8	50.0
Toluene	Ave	1.134	1.053	0.4000	46.4	50.0	-7.1	50.0
2-Nitropropane	Qua		0.0448	0.0100	84.8	100	-15.2	50.0
Tetrachloroethene	Ave	0.3633	0.3593	0.2000	49.4	50.0	-1.1	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2119	0.2247	0.1000	53.0	50.0	6.1	50.0
trans-1,3-Dichloropropene	Ave	0.4557	0.4508	0.1000	49.5	50.0	-1.1	50.0
1,1,2-Trichloroethane	Ave	0.2033	0.2030	0.1000	49.9	50.0	-0.2	50.0
Ethyl methacrylate	Ave	0.3227	0.3127	0.0100	48.4	50.0	-3.1	50.0
Dibromochloromethane	Ave	0.2537	0.2619	0.1000	51.6	50.0	3.2	50.0
1,3-Dichloropropane	Ave	0.4560	0.4514	0.0100	49.5	50.0	-1.0	50.0
1,2-Dibromoethane	Ave	0.2174	0.2176	0.1000	50.1	50.0	0.1	50.0
n-Butyl acetate	Ave	0.3974	0.3982	0.0100	50.1	50.0	0.2	50.0
2-Hexanone	Ave	0.1467	0.1589	0.1000	54.2	50.0	8.3	50.0
1-Chlorohexane	Ave	0.6626	0.7039	0.0100	53.1	50.0	6.2	50.0
Chlorobenzene	Ave	0.999	0.9836	0.5000	49.2	50.0	-1.6	50.0
Ethylbenzene	Ave	2.137	2.031	0.1000	47.5	50.0	-4.9	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3159	0.3162	0.0100	50.0	50.0	0.0	50.0
m,p-Xylenes	Ave	0.8043	0.7594	0.1000	47.2	50.0	-5.6	50.0
o-Xylene	Ave	0.7389	0.7152	0.3000	48.4	50.0	-3.2	50.0
Styrene	Ave	1.097	1.061	0.3000	48.3	50.0	-3.3	50.0
Bromoform	Ave	0.2642	0.2800	0.1000	53.0	50.0	6.0	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Lab Sample ID: CCVC 160-288297/20 Calibration Date: 01/19/2017 22:41
 Instrument ID: VMSX Calib Start Date: 11/18/2016 12:29
 GC Column: RTXVMS30 ID: 0.25 (mm) Calib End Date: 11/18/2016 15:20
 Lab File ID: XCCV5249.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropylbenzene	Ave	4.864	4.698	0.1000	48.3	50.0	-3.4	50.0
Bromobenzene	Ave	0.9019	0.8660	0.0100	48.0	50.0	-4.0	50.0
N-Propylbenzene	Ave	5.474	5.315	0.0100	48.5	50.0	-2.9	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5694	0.5346	0.3000	46.9	50.0	-6.1	50.0
2-Chlorotoluene	Ave	3.219	3.074	0.0100	47.8	50.0	-4.5	50.0
1,3,5-Trimethylbenzene	Ave	3.730	3.577	0.0100	48.0	50.0	-4.1	50.0
1,2,3-Trichloropropane	Ave	0.1648	0.1694	0.0100	51.4	50.0	2.8	50.0
Cyclohexanone	Ave	0.0161	0.0177	0.0010	547	500	9.5	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1887	0.1878	0.0100	49.8	50.0	-0.5	50.0
4-Chlorotoluene	Ave	3.176	2.992	0.0100	47.1	50.0	-5.8	50.0
tert-Butylbenzene	Ave	3.306	3.267	0.0100	49.4	50.0	-1.2	50.0
1,2,4-Trimethylbenzene	Ave	3.654	3.534	0.0100	48.4	50.0	-3.3	50.0
sec-Butylbenzene	Ave	5.006	4.939	0.0100	49.3	50.0	-1.4	50.0
p-Isopropyltoluene	Ave	4.001	3.941	0.0100	49.3	50.0	-1.5	50.0
1,3-Dichlorobenzene	Ave	1.767	1.682	0.6000	47.6	50.0	-4.8	50.0
1,4-Dichlorobenzene	Ave	1.645	1.578	0.5000	48.0	50.0	-4.1	50.0
1,2,3-Trimethylbenzene	Ave	3.318	3.315	0.0100	49.9	50.0	-0.1	50.0
Benzyl chloride	Ave	0.1991	0.1665	0.0100	41.8	50.0	-16.4	50.0
n-Butylbenzene	Ave	1.000	0.9724	0.0100	48.6	50.0	-2.8	50.0
1,2-Dichlorobenzene	Ave	1.502	1.459	0.4000	48.6	50.0	-2.9	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.0848	0.0855	0.0500	50.4	50.0	0.7	50.0
n-Nonyl Aldehyde	Lin1		0.4359	0.0100	48.1	50.0	-3.7	50.0
1,3,5-Trichlorobenzene	Ave	1.253	1.245	0.0100	49.7	50.0	-0.7	50.0
Hexachlorobutadiene	Ave	0.6394	0.6892	0.0100	53.9	50.0	7.8	50.0
1,2,4-Trichlorobenzene	Ave	1.028	1.002	0.2000	48.7	50.0	-2.5	50.0
Naphthalene	Ave	1.756	1.912	0.0100	54.4	50.0	8.9	50.0
1,2,3-Trichlorobenzene	Ave	0.8288	0.8521	0.0100	51.4	50.0	2.8	50.0
Dibromofluoromethane (Surr)	Ave	0.1953	0.2094	0.0100	53.6	50.0	7.2	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2067	0.2258	0.0100	54.6	50.0	9.3	50.0
Toluene-d8 (Surr)	Ave	1.528	1.564	0.0100	51.2	50.0	2.4	50.0
4-Bromofluorobenzene (Surr)	Ave	1.224	1.173	0.0100	47.9	50.0	-4.2	50.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XCCV5249.D
 Lims ID: CCVC
 Client ID:
 Sample Type: CCVC
 Inject. Date: 19-Jan-2017 22:41:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009590-020
 Misc. Info.: CCVC
 Operator ID: JDH Instrument ID: VMSX
 Sublist: chrom-5mL-8260-MSX*sub15
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Jan-2017 14:20:41 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN

Process Host: XAWRK005

First Level Reviewer: hannj

Date: 23-Jan-2017 14:20:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.913	1.913	0.000	99	466064	50.0	53.4	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.079	2.079	0.000	99	210957	50.0	47.1	
3 Chloromethane	50	2.126	2.126	0.000	99	583444	50.0	49.4	
4 Vinyl chloride	62	2.233	2.233	0.000	98	443024	50.0	48.4	
121 Butadiene	39	2.256	2.256	0.000	87	424940	50.0	50.9	
5 Bromomethane	94	2.623	2.623	0.000	93	154132	50.0	54.5	
6 Chloroethane	64	2.789	2.789	0.000	99	152513	50.0	48.5	
7 Trichlorofluoromethane	101	2.966	2.966	0.000	98	436587	50.0	56.8	
122 Dichlorofluoromethane	67	3.061	3.061	0.000	97	458906	50.0	52.6	
8 Ethyl ether	74	3.416	3.416	0.000	96	166085	50.0	50.7	
11 Ethanol	45	3.664	3.664	0.000	31	90015	2000.0	2354.6	
9 1,1-Dichloroethene	96	3.664	3.664	0.000	92	370611	50.0	50.0	
10 Carbon disulfide	76	3.676	3.676	0.000	100	1243466	50.0	48.5	
12 1,1,2-Trichloro-1,2,2-trif	151	3.771	3.771	0.000	95	277108	50.0	49.0	
13 Iodomethane	142	3.854	3.854	0.000	99	487686	50.0	49.0	
14 Acrolein	56	4.209	4.209	0.000	100	125324	250.0	182.0	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	91	451654	50.0	49.9	
16 Isopropyl alcohol	45	4.564	4.564	0.000	98	113055	500.0	568.6	
17 Methylene Chloride	84	4.599	4.599	0.000	99	319469	50.0	49.5	
18 Acetone	43	4.718	4.718	0.000	99	54862	50.0	60.8	
19 trans-1,2-Dichloroethene	96	4.860	4.860	0.000	94	374466	50.0	48.5	
20 Methyl acetate	74	4.942	4.942	0.000	99	131322	250.0	265.3	
21 Hexane	86	5.013	5.013	0.000	85	133513	50.0	48.9	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	93	612971	50.0	47.5	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	98	182436	500.0	555.4	
24 Acetonitrile	41	5.451	5.451	0.000	100	226961	500.0	545.4	
25 Isopropyl ether	45	5.712	5.712	0.000	96	1244927	50.0	51.2	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	93	764830	50.0	51.0	
S 26 1,2-Dichloroethene, Total	96				0			97.5	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	98	712750	50.0	49.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.925	5.925	0.000	99	697110	500.0	527.1	
30 Tert-butyl ethyl ether	59	6.256	6.256	0.000	99	985975	50.0	49.6	
31 Vinyl acetate	43	6.268	6.268	0.000	97	507926	50.0	44.5	
32 cis-1,2-Dichloroethene	96	6.623	6.623	0.000	84	372101	50.0	49.0	
33 2,2-Dichloropropane	77	6.765	6.765	0.000	92	377344	50.0	42.6	
34 Cyclohexane	84	6.871	6.871	0.000	93	638183	50.0	48.6	
35 Chlorobromomethane	128	6.883	6.883	0.000	92	122496	50.0	50.8	
36 Chloroform	83	7.013	7.013	0.000	95	580481	50.0	49.9	
37 Carbon tetrachloride	117	7.167	7.167	0.000	98	493891	50.0	51.9	
38 Tetrahydrofuran	71	7.226	7.226	0.000	93	37027	100.0	110.1	
39 Ethyl acetate	45	7.238	7.238	0.000	97	55138	100.0	112.0	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.262	0.000	90	266720	50.0	53.6	
40 1,1,1-Trichloroethane	97	7.262	7.262	0.000	98	560797	50.0	50.9	
42 1,1-Dichloropropene	75	7.439	7.439	0.000	95	538983	50.0	49.8	
43 2-Butanone (MEK)	43	7.463	7.463	0.000	99	86447	50.0	55.6	
124 Isooctane	57	7.605	7.605	0.000	96	2026894	50.0	49.8	
117 n-Heptane	43	7.759	7.759	0.000	81	869056	50.0	52.0	
44 Benzene	78	7.759	7.759	0.000	97	1402141	50.0	46.9	
45 Propionitrile	54	7.830	7.830	0.000	94	255927	500.0	555.3	
46 Methacrylonitrile	41	7.853	7.853	0.000	93	1153056	500.0	541.2	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	89	287617	50.0	54.6	
48 Tert-amyl methyl ether	73	7.960	7.960	0.000	95	660112	50.0	48.9	
49 1,2-Dichloroethane	62	8.043	8.043	0.000	97	353806	50.0	51.3	
50 Isobutyl alcohol	42	8.149	8.149	0.000	95	123938	1250.0	1421.3	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1273651	50.0	50.0	
52 Methylcyclohexane	55	8.504	8.504	0.000	95	741390	50.0	51.4	
53 Trichloroethene	95	8.528	8.528	0.000	97	365501	50.0	51.3	
54 n-Butanol	56	9.037	9.037	0.000	86	129174	1250.0	1315.2	
55 Dibromomethane	93	9.060	9.060	0.000	96	131714	50.0	52.3	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	96	370273	50.0	50.7	
123 Ethyl acrylate	55	9.285	9.285	0.000	98	270945	50.0	52.1	
57 Dichlorobromomethane	83	9.285	9.285	0.000	98	373270	50.0	52.0	
58 Methyl methacrylate	69	9.534	9.534	0.000	95	263621	100.0	104.8	
59 1,4-Dioxane	88	9.557	9.557	0.000	86	35169	1000.0	1198.2	M
60 2-Chloroethyl vinyl ether	63	10.031	10.031	0.000	91	131985	50.0	47.8	
61 cis-1,3-Dichloropropene	75	10.078	10.078	0.000	94	483039	50.0	50.9	
\$ 62 Toluene-d8 (Surr)	98	10.315	10.315	0.000	94	1289757	50.0	51.2	
63 Toluene	92	10.374	10.374	0.000	98	868630	50.0	46.4	
64 2-Nitropropane	43	10.670	10.670	0.000	98	73920	100.0	84.8	
65 Tetrachloroethene	164	10.823	10.823	0.000	96	296287	50.0	49.4	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	95	185328	50.0	53.0	
67 trans-1,3-Dichloropropene	75	10.883	10.883	0.000	95	371707	50.0	49.5	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	92	167404	50.0	49.9	
69 Ethyl methacrylate	69	11.096	11.096	0.000	85	257882	50.0	48.4	
70 Chlorodibromomethane	129	11.249	11.249	0.000	91	215966	50.0	51.6	
71 1,3-Dichloropropane	76	11.356	11.356	0.000	95	372247	50.0	49.5	
72 Ethylene Dibromide	107	11.498	11.498	0.000	98	179469	50.0	50.1	
S 73 1,3-Dichloropropene, Total	75				0			100.4	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	328408	50.0	50.1	
74 2-Hexanone	43	11.770	11.770	0.000	96	131067	50.0	54.2	
* 76 Chlorobenzene-d5	117	12.042	12.042	0.000	90	824643	50.0	50.0	
75 1-Chlorohexane	91	12.042	12.042	0.000	86	580469	50.0	53.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.054	12.054	0.000	95	811134	50.0	49.2	
78 Ethylbenzene	91	12.090	12.090	0.000	99	1675233	50.0	47.5	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	93	260783	50.0	50.0	
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	626196	50.0	47.2	
82 o-Xylene	106	12.657	12.657	0.000	98	589746	50.0	48.4	
83 Styrene	104	12.717	12.717	0.000	95	874844	50.0	48.3	
84 Bromoform	173	12.728	12.728	0.000	96	97949	50.0	53.0	
85 Isopropylbenzene	105	12.965	12.965	0.000	97	1643352	50.0	48.3	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	84	410149	50.0	47.9	
87 Bromobenzene	156	13.320	13.320	0.000	98	302887	50.0	48.0	
88 N-Propylbenzene	91	13.356	13.356	0.000	98	1859015	50.0	48.5	
89 1,1,2,2-Tetrachloroethane	83	13.427	13.427	0.000	96	186995	50.0	46.9	
90 2-Chlorotoluene	91	13.486	13.486	0.000	96	1075290	50.0	47.8	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	94	1251134	50.0	48.0	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	86	59257	50.0	51.4	
93 trans-1,4-Dichloro-2-buten	53	13.580	13.580	0.000	90	65678	50.0	49.8	
94 Cyclohexanone	55	13.580	13.580	0.000	79	61770	500.0	547.4	
95 4-Chlorotoluene	91	13.640	13.640	0.000	99	1046420	50.0	47.1	
96 tert-Butylbenzene	119	13.817	13.817	0.000	93	1142754	50.0	49.4	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	1235992	50.0	48.4	
98 sec-Butylbenzene	105	13.983	13.983	0.000	95	1727347	50.0	49.3	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	1378435	50.0	49.3	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	98	588219	50.0	47.6	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	96	349762	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	95	551936	50.0	48.0	
119 1,2,3-Trimethylbenzene	105	14.279	14.279	0.000	99	1159407	50.0	49.9	
120 Benzyl chloride	126	14.480	14.480	0.000	89	58243	50.0	41.8	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	340091	50.0	48.6	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	96	510352	50.0	48.6	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	84	29891	50.0	50.4	
106 n-Nonyl Aldehyde	57	15.332	15.332	0.000	63	152446	50.0	48.1	
107 1,3,5-Trichlorobenzene	180	15.344	15.344	0.000	97	435354	50.0	49.7	
108 Hexachlorobutadiene	225	15.864	15.864	0.000	96	241071	50.0	53.9	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	94	350425	50.0	48.7	
110 Naphthalene	128	16.172	16.172	0.000	97	668673	50.0	54.4	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	95	298040	50.0	51.4	
S 112 Xylenes, Total	106				0			95.6	
S 113 Trihalomethanes, Total	1				0			206.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 NewWkMix_00202

Amount Added: 10.00

Units: uL

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\MSX\20170119-9590.b\XCCV5249.D

Injection Date: 19-Jan-2017 22:41:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: CCVC

Worklist Smp#: 20

Client ID:

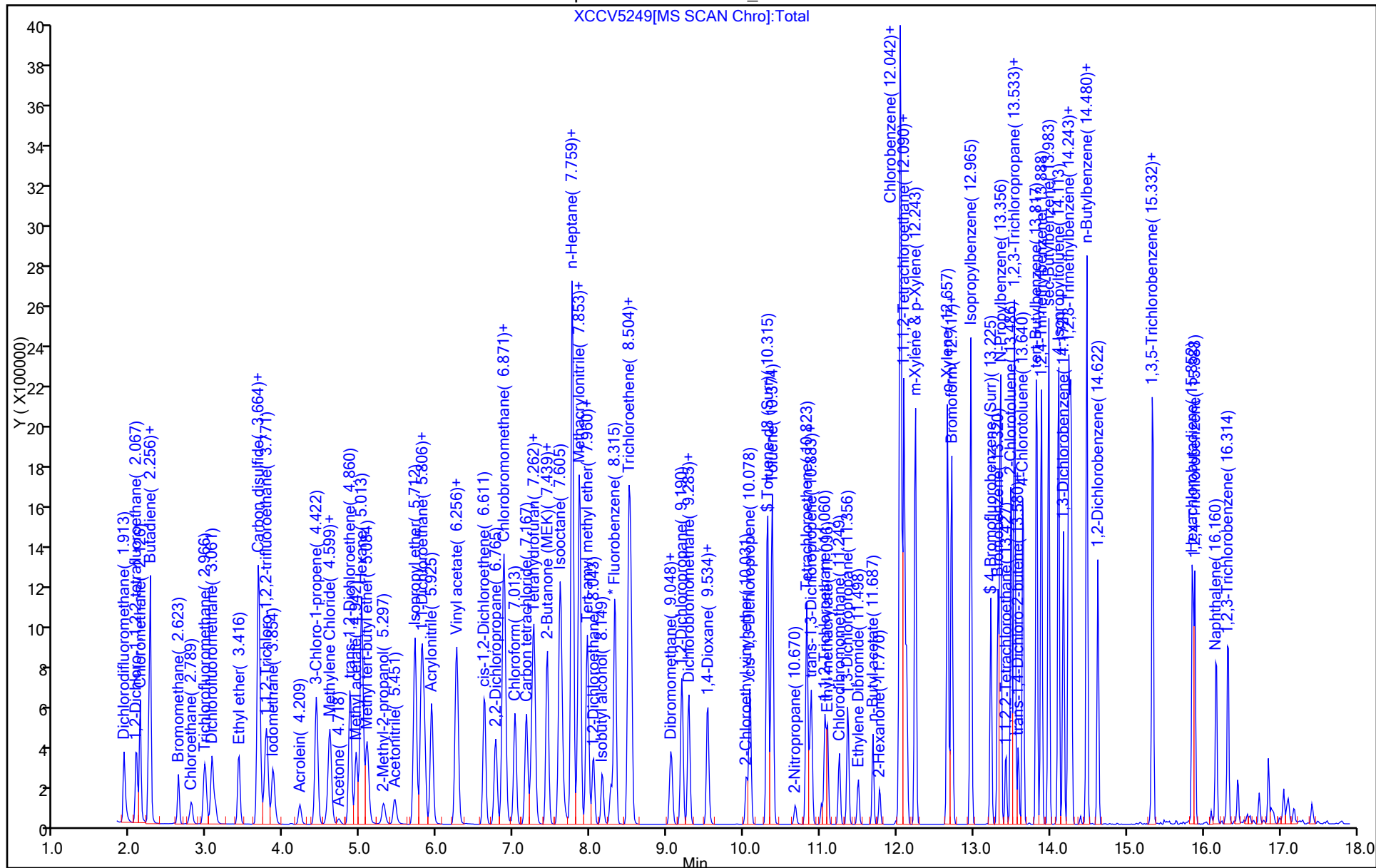
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 19

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XCCV5249.D

Injection Date: 19-Jan-2017 22:41:30

Instrument ID: VMSX

Lims ID: CCVC

Client ID:

Operator ID: JDH

ALS Bottle#:

19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

Column:

Detector: MS SCAN

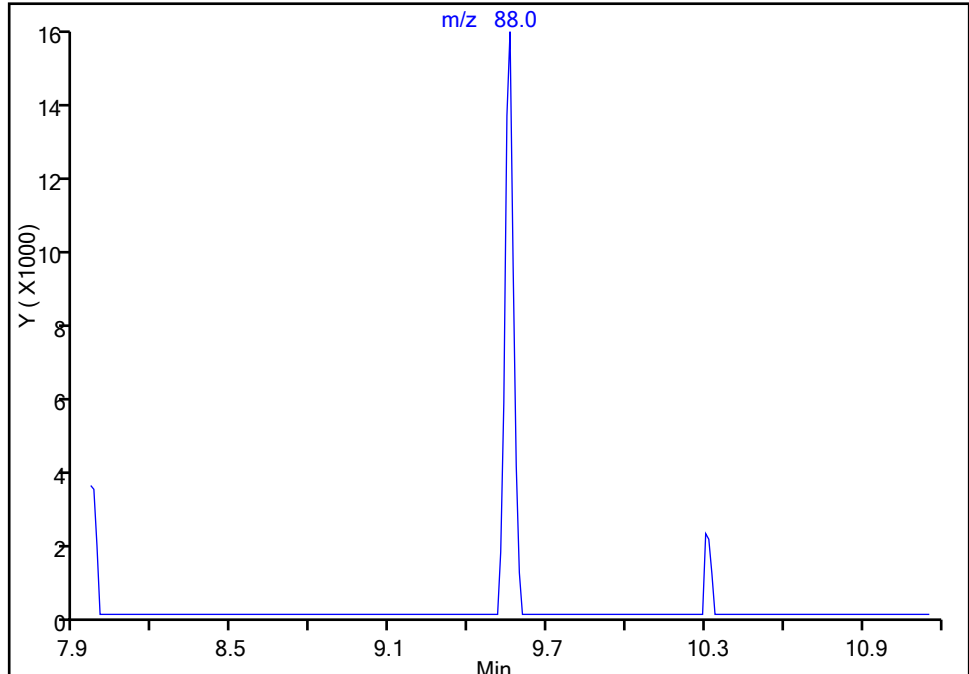
59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

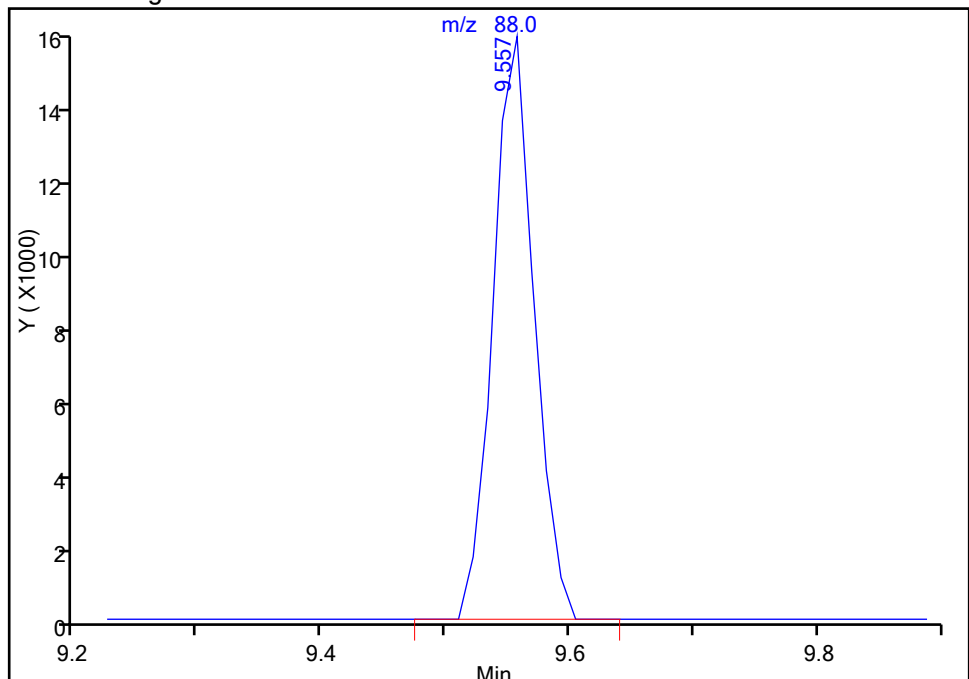
Not Detected

Expected RT: 9.56

Processing Integration Results



Manual Integration Results



RT: 9.56

Area: 35169

Amount: 1198.1622

Amount Units: ug/l

Reviewer: hannj, 23-Jan-2017 14:20:41

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XBFB4403.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 18-Nov-2016 11:37:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: BFB
Operator ID: ADB Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 23-Nov-2016 09:41:31 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D
Column 1 : Det: MS SCAN
Process Host: XAWRK037

First Level Reviewer: buettnera

Date: 18-Nov-2016 11:52:56

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

\$ 114 BFB	95	3.978	3.978	0.000	0	519096	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_00064

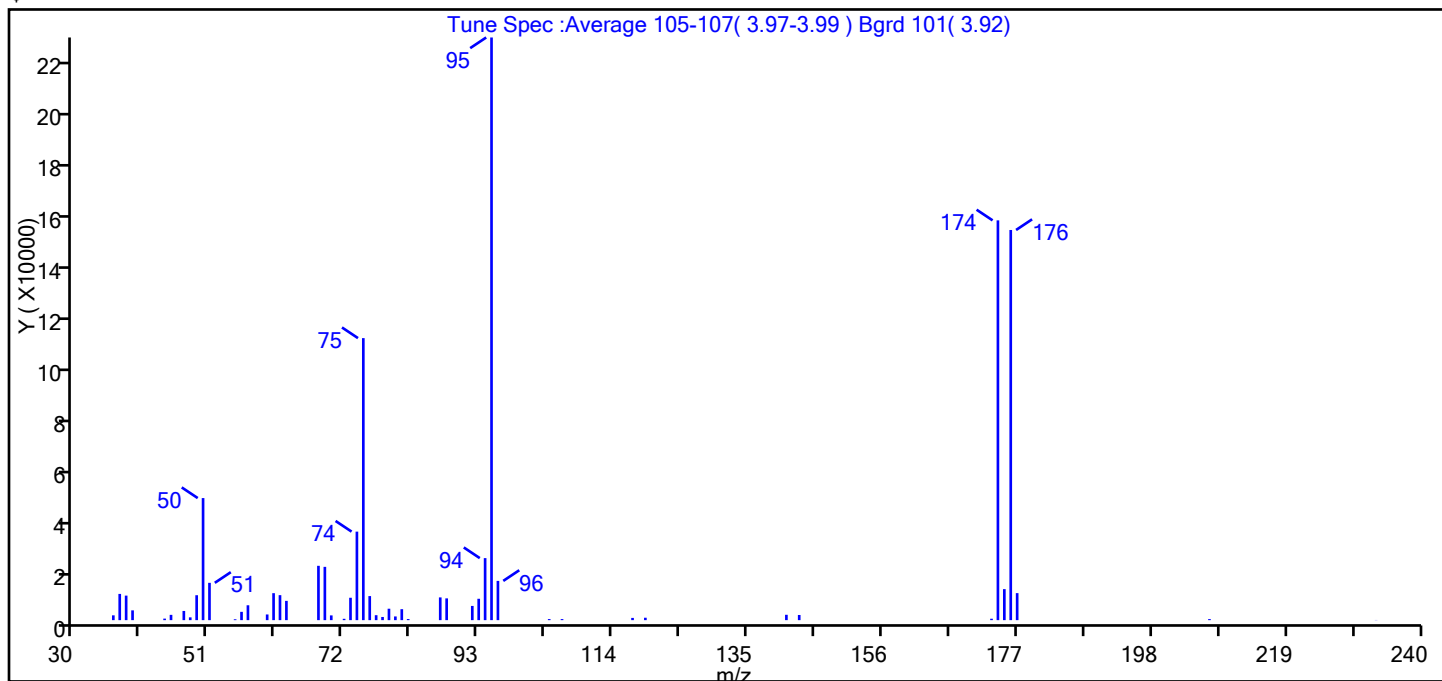
Amount Added: 2.00

Units: uL

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XBFB4403.D
Injection Date: 18-Nov-2016 11:37:30 Instrument ID: VMSX
Lims ID: BFB
Client ID:
Operator ID: ADB ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Tune Method: BFB Method 8260

\$ 114 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.9
75	30 to 60% of m/z 95	48.4
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.2 (0.4)
174	50 to 120% of m/z 95	68.6
175	5 to 9% of m/z 174	5.3 (7.8)
176	Greater than 95% but less than 101% of m/z 174	67.0 (97.6)
177	5 to 9% of m/z 176	4.6 (6.9)

Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XBFB4403.D\5mL-8260-MSX.rsl\spectra.d
Injection Date: 18-Nov-2016 11:37:30
Spectrum: Tune Spec :Average 105-107(3.97-3.99) Bgrd 101(3.92)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 52

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1853	57.00	5736	77.00	1910	104.00	409
37.00	10113	60.00	2192	78.00	1220	106.00	404
38.00	9461	61.00	10399	79.00	4405	117.00	862
39.00	3774	62.00	9637	80.00	1428	119.00	931
44.00	592	63.00	7430	81.00	4230	141.00	2064
45.00	2039	68.00	20952	82.00	421	143.00	1990
47.00	3542	69.00	20552	87.00	8770	173.00	545
48.00	1074	70.00	1832	88.00	8395	174.00	154176
49.00	9614	72.00	514	92.00	5480	175.00	11963
50.00	47072	73.00	8633	93.00	8243	176.00	150464
51.00	14390	74.00	34136	94.00	23920	177.00	10420
55.00	336	75.00	108760	95.00	224704	207.00	400
56.00	3202	76.00	9281	96.00	15134	233.00	64

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XBFB4403.D

Injection Date: 18-Nov-2016 11:37:30

Instrument ID: VMSX

Operator ID: ADB

Lims ID: BFB

Worklist Smp#: 1

Client ID:

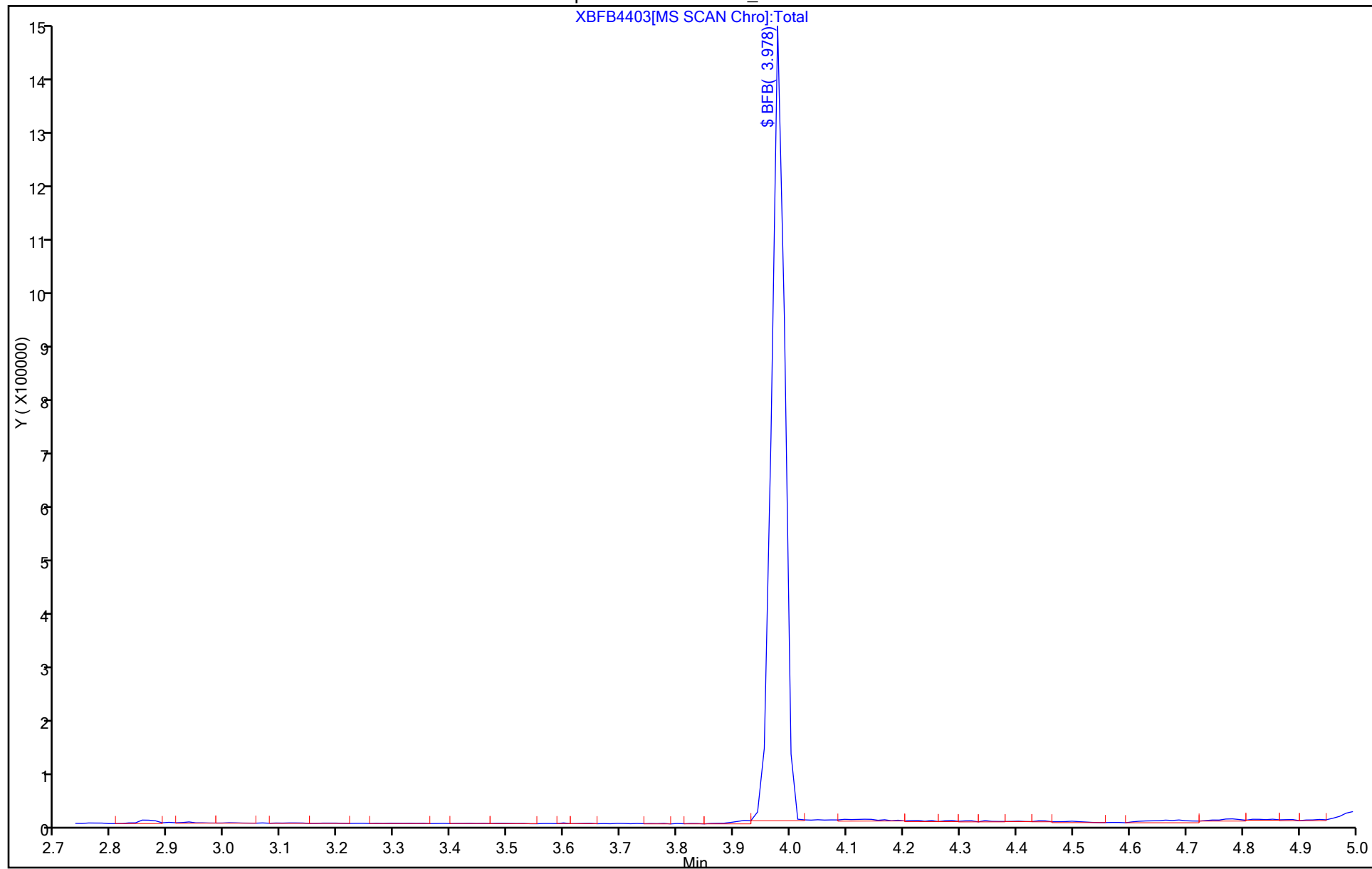
Injection Vol: 2.0 uL

Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XBFB5168.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 16-Jan-2017 17:20:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: 160-0009564-002
Misc. Info.: BFB
Operator ID: JDH Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 17-Jan-2017 15:27:29 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D
Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: hannj

Date: 17-Jan-2017 15:27:29

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

\$ 114 BFB	95	3.978	3.978	0.000	0	170328	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_00066

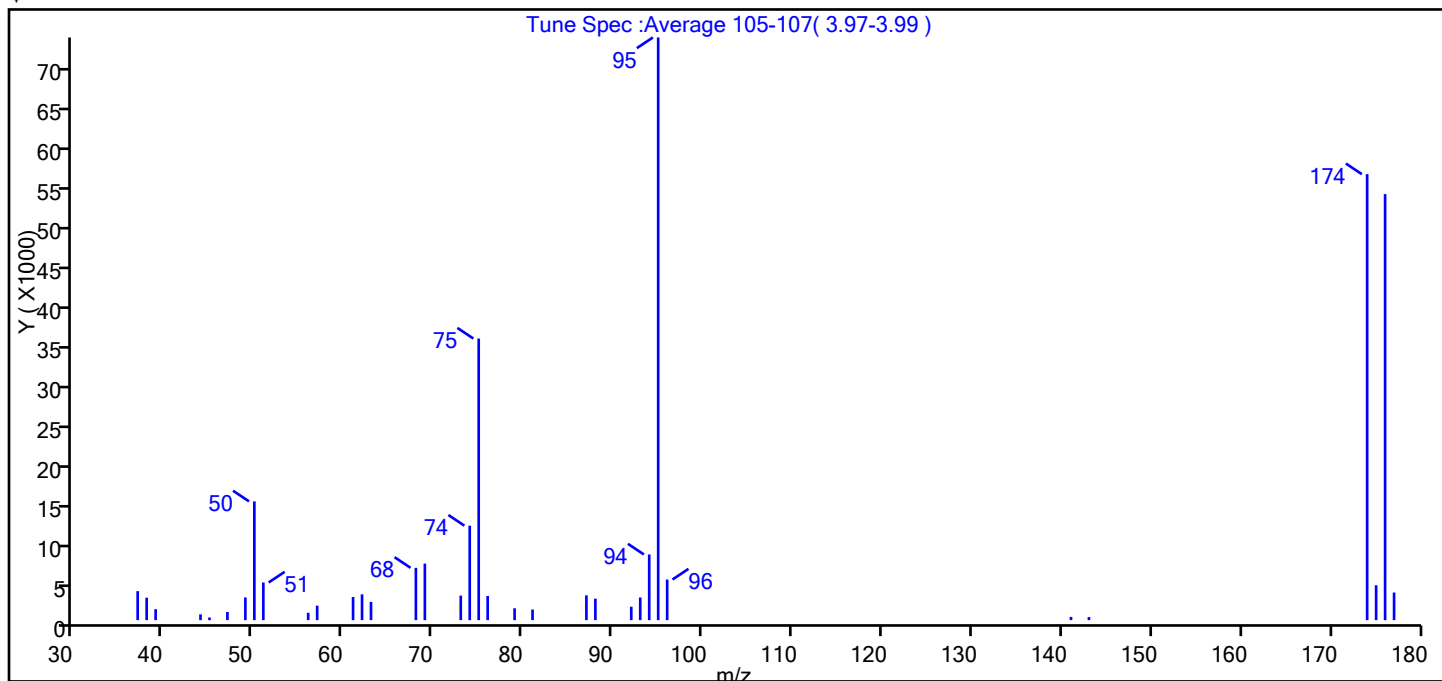
Amount Added: 2.00

Units: uL

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\MSX\20170116-9564.b\XBFB5168.D
Injection Date: 16-Jan-2017 17:20:30 Instrument ID: VMSX
Lims ID: BFB
Client ID:
Operator ID: JDH ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Tune Method: BFB Method 8260

\$ 114 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.4
75	30 to 60% of m/z 95	48.3
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	76.5
175	5 to 9% of m/z 174	6.0 (7.8)
176	Greater than 95% but less than 101% of m/z 174	73.1 (95.5)
177	5 to 9% of m/z 176	4.7 (6.5)

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XBFB5168.D\5mL-8260-MSX.rsl\spectra.d
Injection Date: 16-Jan-2017 17:20:30
Spectrum: Tune Spec :Average 105-107(3.97-3.99)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 35

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	3667	56.00	929	75.00	35584	95.00	73632
38.00	2834	57.00	1827	76.00	3056	96.00	5134
39.00	1387	61.00	2919	79.00	1499	141.00	408
44.00	733	62.00	3261	81.00	1345	143.00	389
45.00	336	63.00	2307	87.00	3133	174.00	56360
47.00	1031	68.00	6609	88.00	2714	175.00	4411
49.00	2866	69.00	7147	92.00	1693	176.00	53840
50.00	15009	73.00	3102	93.00	2863	177.00	3493
51.00	4760	74.00	11938	94.00	8298		

Report Date: 17-Jan-2017 15:27:30

Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XBFB5168.D

Injection Date: 16-Jan-2017 17:20:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: BFB

Worklist Smp#: 2

Client ID:

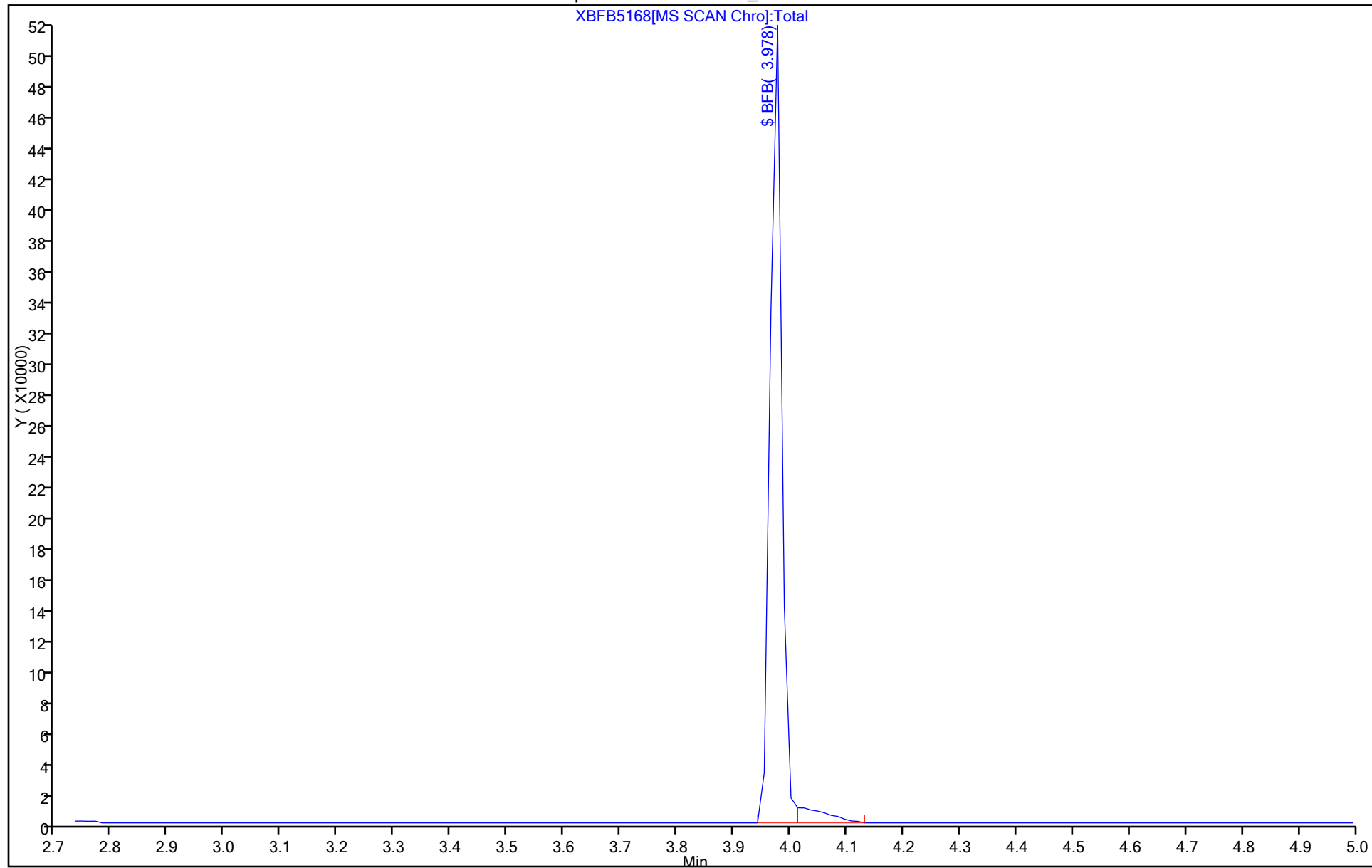
Injection Vol: 2.0 uL

Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XBFB5231.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 19-Jan-2017 14:22:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: 160-0009590-002
Misc. Info.: BFB
Operator ID: JDH Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 19-Jan-2017 17:39:35 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D
Column 1 : Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: hannj

Date: 19-Jan-2017 17:39:35

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

\$ 114 BFB	95	3.977	3.977	0.000	0	285665	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_00066

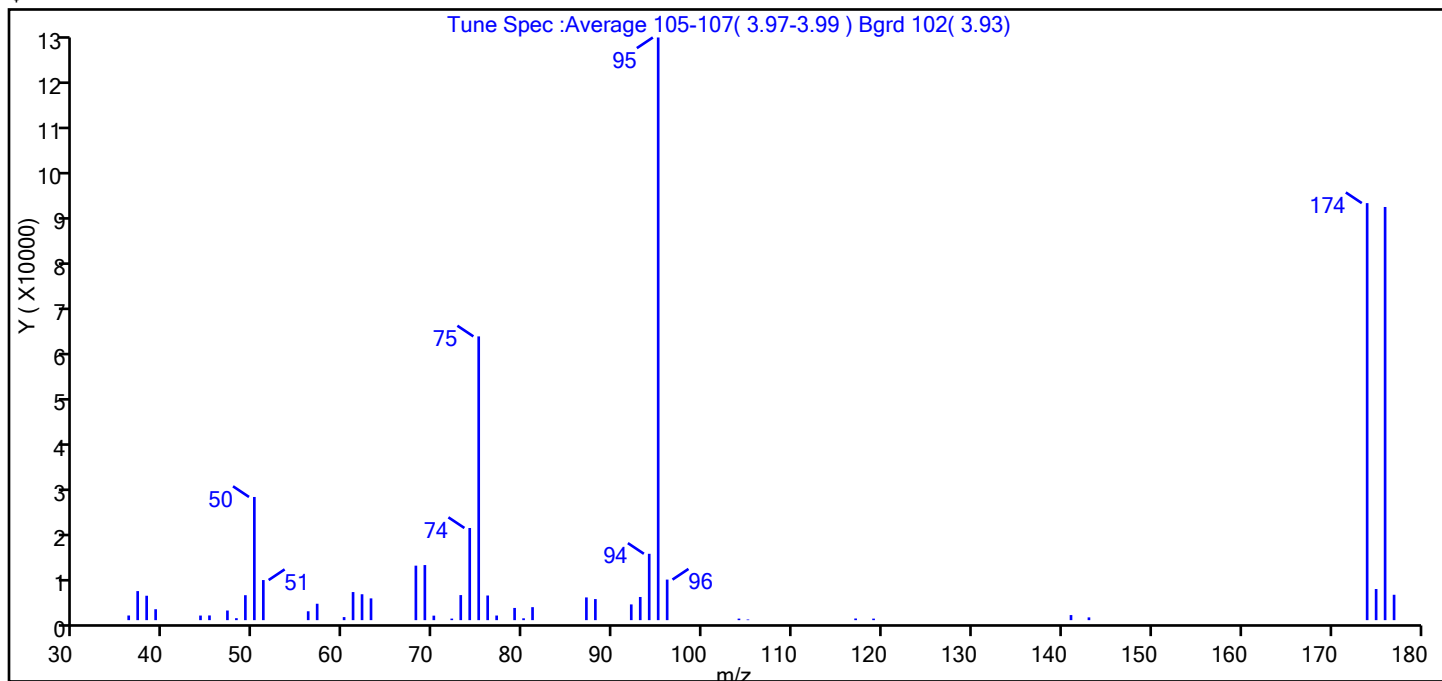
Amount Added: 2.00

Units: uL

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\MSX\20170119-9590.b\XBFB5231.D
Injection Date: 19-Jan-2017 14:22:30 Instrument ID: VMSX
Lims ID: BFB
Client ID:
Operator ID: JDH ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Tune Method: BFB Method 8260

\$ 114 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.1
75	30 to 60% of m/z 95	48.7
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	71.6
175	5 to 9% of m/z 174	5.3 (7.5)
176	Greater than 95% but less than 101% of m/z 174	70.9 (99.1)
177	5 to 9% of m/z 176	4.4 (6.1)

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XBFB5231.D\5mL-8260-MSX.rsl\spectra.d
Injection Date: 19-Jan-2017 14:22:30
Spectrum: Tune Spec :Average 105-107(3.97-3.99) Bgrd 102(3.93)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 46

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1019	57.00	3600	76.00	5408	104.00	334
37.00	6374	60.00	669	77.00	1014	105.00	143
38.00	5356	61.00	6164	79.00	2679	117.00	361
39.00	2396	62.00	5684	80.00	400	119.00	334
44.00	1007	63.00	4778	81.00	2849	141.00	1114
45.00	1031	68.00	11958	87.00	4988	143.00	606
47.00	2113	69.00	12089	88.00	4624	174.00	91520
48.00	429	70.00	988	92.00	3452	175.00	6830
49.00	5474	72.00	337	93.00	5085	176.00	90672
50.00	27032	73.00	5499	94.00	14562	177.00	5571
51.00	8797	74.00	20224	95.00	127872		
56.00	1947	75.00	62272	96.00	8900		

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XBFB5231.D

Injection Date: 19-Jan-2017 14:22:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: BFB

Worklist Smp#: 2

Client ID:

Injection Vol: 2.0 uL

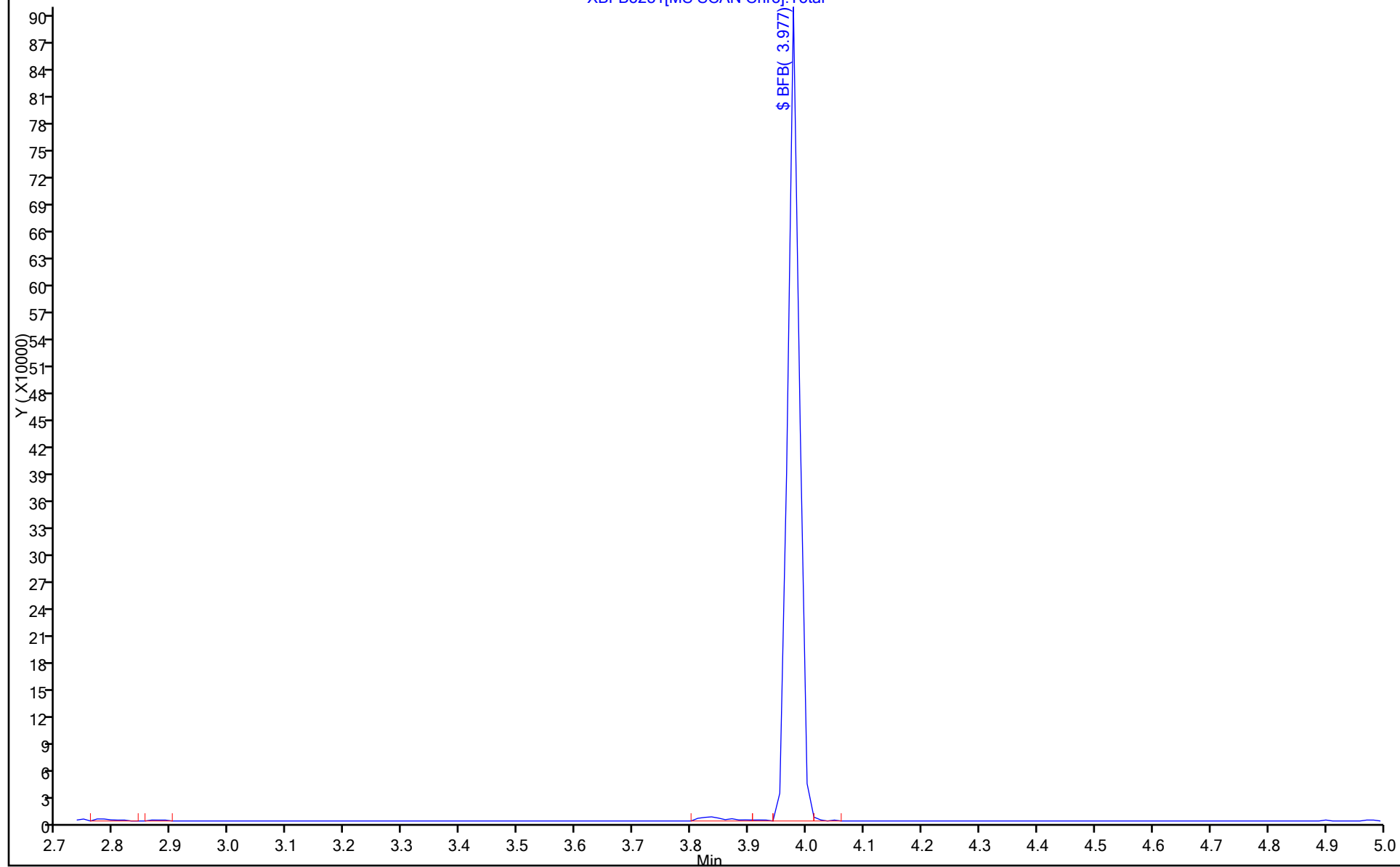
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD

XBFB5231[MS SCAN Chrom]:Total



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 160-287920/7

Matrix: Water Lab File ID: XBLK5173.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 01/16/2017 19:33

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.0	U	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 160-287920/7

Matrix: Water Lab File ID: XBLK5173.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 01/16/2017 19:33

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		81-118
460-00-4	4-Bromofluorobenzene (Surr)	90		85-114
1868-53-7	Dibromofluoromethane (Surr)	109		80-119
2037-26-5	Toluene-d8 (Surr)	100		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XBLK5173.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 16-Jan-2017 19:33:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-007
 Misc. Info.: MB
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:14:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.913					ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.067					ND	
3 Chloromethane	50		2.126					ND	
4 Vinyl chloride	62		2.233					ND	
121 Butadiene	39		2.256					ND	
5 Bromomethane	94		2.623					ND	
6 Chloroethane	64		2.789					ND	
7 Trichlorofluoromethane	101		2.966					ND	
122 Dichlorofluoromethane	67		3.061					ND	
8 Ethyl ether	74		3.404					ND	
11 Ethanol	45		3.653					ND	
9 1,1-Dichloroethene	96		3.664					ND	
10 Carbon disulfide	76		3.664					ND	
12 1,1,2-Trichloro-1,2,2-trif	151		3.771					ND	
13 Iodomethane	142		3.854					ND	
14 Acrolein	56		4.197					ND	
15 3-Chloro-1-propene	39		4.422					ND	
16 Isopropyl alcohol	45		4.564					ND	
17 Methylene Chloride	84		4.587					ND	
18 Acetone	43		4.706					ND	
19 trans-1,2-Dichloroethene	96		4.860					ND	
20 Methyl acetate	74		4.942					ND	
21 Hexane	86		5.013					ND	
22 Methyl tert-butyl ether	73		5.084					ND	
23 2-Methyl-2-propanol	59		5.297					ND	
24 Acetonitrile	41		5.439					ND	
25 Isopropyl ether	45		5.700					ND	
27 2-Chloro-1,3-butadiene	53		5.794					ND	
S 26 1,2-Dichloroethene, Total	96		5.816					ND	
28 1,1-Dichloroethane	63		5.830					ND	
29 Acrylonitrile	53		5.925					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		6.244					ND	
31 Vinyl acetate	43		6.256					ND	
32 cis-1,2-Dichloroethene	96		6.611					ND	
33 2,2-Dichloropropane	77		6.753					ND	
34 Cyclohexane	84		6.859					ND	
35 Chlorobromomethane	128		6.883					ND	
36 Chloroform	83		7.013					ND	
37 Carbon tetrachloride	117		7.155					ND	
38 Tetrahydrofuran	71		7.214					ND	
39 Ethyl acetate	45		7.226					ND	
\$ 41 Dibromofluoromethane (Surr	113	7.261	7.250	0.011	93	305794	50.0	54.4	
40 1,1,1-Trichloroethane	97		7.262					ND	
42 1,1-Dichloropropene	75		7.427					ND	
43 2-Butanone (MEK)	43		7.451					ND	
124 Isooctane	57		7.593					ND	
117 n-Heptane	43		7.759					ND	
44 Benzene	78		7.759					ND	
45 Propionitrile	54		7.830					ND	
46 Methacrylonitrile	41		7.853					ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	31	333415	50.0	56.0	
48 Tert-amyl methyl ether	73		7.960					ND	
49 1,2-Dichloroethane	62		8.031					ND	
50 Isobutyl alcohol	42		8.149					ND	
* 51 Fluorobenzene	96	8.315	8.315	-0.001	98	1439275	50.0	50.0	
125 1,4-Difluorobenzene	114		8.427					ND	
52 Methylcyclohexane	55		8.492					ND	
53 Trichloroethene	95		8.528					ND	
A 126 C6-C12	1	8.945	(3.966-13.924)		0	112718		NC	
54 n-Butanol	56		9.037					ND	
55 Dibromomethane	93		9.048					ND	
56 1,2-Dichloropropane	63		9.190					ND	
123 Ethyl acrylate	55		9.273					ND	
57 Dichlorobromomethane	83		9.285					ND	
58 Methyl methacrylate	69		9.522					ND	
59 1,4-Dioxane	88		9.545					ND	
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63		10.031					ND	
61 cis-1,3-Dichloropropene	75		10.078					ND	
\$ 62 Toluene-d8 (Surr)	98	10.314	10.303	0.011	94	1406330	50.0	50.2	
63 Toluene	92		10.374					ND	
64 2-Nitropropane	43		10.670					ND	
65 Tetrachloroethene	164		10.823					ND	
66 4-Methyl-2-pentanone (MIBK	43		10.859					ND	
67 trans-1,3-Dichloropropene	75		10.882					ND	
68 1,1,2-Trichloroethane	83		11.060					ND	
69 Ethyl methacrylate	69		11.095					ND	
70 Chlorodibromomethane	129		11.249					ND	
71 1,3-Dichloropropane	76		11.356					ND	
72 Ethylene Dibromide	107		11.498					ND	
S 73 1,3-Dichloropropene, Total	75		11.620					ND	
118 n-Butyl acetate	43		11.687					ND	
74 2-Hexanone	43		11.770					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	12.042	12.030	0.012	89	916202	50.0	50.0	
75 1-Chlorohexane	91		12.042					ND	
77 Chlorobenzene	112		12.054					ND	
78 Ethylbenzene	91		12.089					ND	
79 1,1,1,2-Tetrachloroethane	131		12.125					ND	
80 m-Xylene & p-Xylene	106		12.243					ND	
82 o-Xylene	106		12.657					ND	
83 Styrene	104		12.717					ND	
84 Bromoform	173		12.728					ND	
85 Isopropylbenzene	105		12.965					ND	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	85	441589	50.0	44.9	
87 Bromobenzene	156		13.320					ND	
88 N-Propylbenzene	91		13.356					ND	
89 1,1,2,2-Tetrachloroethane	83		13.415					ND	
90 2-Chlorotoluene	91		13.486					ND	
91 1,3,5-Trimethylbenzene	105		13.533					ND	
92 1,2,3-Trichloropropane	110		13.545					ND	
93 trans-1,4-Dichloro-2-buten	53		13.580					ND	
94 Cyclohexanone	55		13.580					ND	
95 4-Chlorotoluene	91		13.640					ND	
81 Pentachloroethane	167		13.776					ND	
96 tert-Butylbenzene	119		13.817					ND	
97 1,2,4-Trimethylbenzene	105		13.888					ND	
98 sec-Butylbenzene	105		13.983					ND	
99 4-Isopropyltoluene	119		14.113					ND	
100 1,3-Dichlorobenzene	146		14.172					ND	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	401800	50.0	50.0	
102 1,4-Dichlorobenzene	146		14.255					ND	
119 1,2,3-Trimethylbenzene	105		14.267					ND	
120 Benzyl chloride	126		14.480					ND	
103 n-Butylbenzene	134		14.480					ND	
104 1,2-Dichlorobenzene	146		14.622					ND	
105 1,2-Dibromo-3-Chloropropan	157		15.320					ND	
106 n-Nonyl Aldehyde	57		15.332					ND	
107 1,3,5-Trichlorobenzene	180		15.344					ND	
108 Hexachlorobutadiene	225		15.852					ND	
109 1,2,4-Trichlorobenzene	180		15.888					ND	
110 Naphthalene	128		16.172					ND	
111 1,2,3-Trichlorobenzene	180		16.326					ND	
S 112 Xylenes, Total	106		16.500					ND	
S 113 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XBLK5173.D

Injection Date: 16-Jan-2017 19:33:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: MB

Worklist Smp#: 7

Client ID:

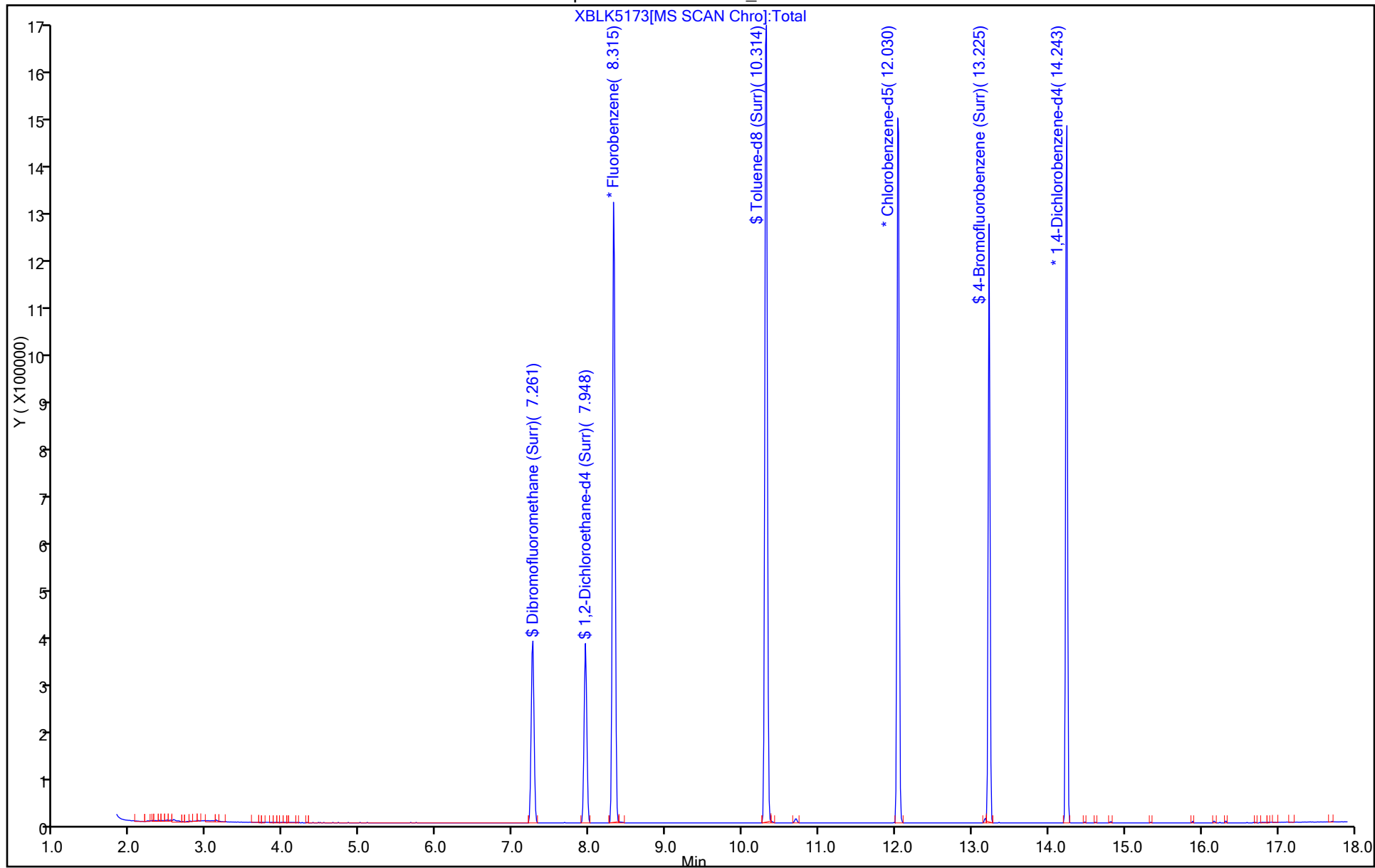
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XBLK5173.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 16-Jan-2017 19:33:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009564-007
Misc. Info.: MB
Operator ID: JDH Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:14:12

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	54.4	108.77
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	56.0	112.10
\$ 62 Toluene-d8 (Surr)	50.0	50.2	100.46
\$ 86 4-Bromofluorobenzene (Surr)	50.0	44.9	89.78

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 160-288297/7

Matrix: Water Lab File ID: XBLK5236.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 01/19/2017 16:57

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 288297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U	5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	1.0	U	5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	1.0	U	5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	1.0	U	5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	1.0	U	5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	1.0	U	5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	2.0	U	5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	1.0	U	5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	2.0	U	5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	2.0	U	10	2.0	1.2
106-93-4	1,2-Dibromoethane	2.0	U	5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	1.0	U	5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	1.0	U	5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	2.0	U	5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	1.0	U	5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	2.0	U	5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	5.0	U	20	5.0	0.39
95-49-8	2-Chlorotoluene	2.0	U	5.0	2.0	0.34
591-78-6	2-Hexanone	2.0	U	20	2.0	0.59
106-43-4	4-Chlorotoluene	2.0	U	5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	2.0	U	20	2.0	0.33
67-64-1	Acetone	10	U	20	10	6.7
71-43-2	Benzene	1.0	U	5.0	1.0	0.25
108-86-1	Bromobenzene	2.0	U	5.0	2.0	0.33
74-97-5	Bromochloromethane	2.0	U	5.0	2.0	0.55
75-27-4	Bromodichloromethane	2.0	U	5.0	2.0	0.25
75-25-2	Bromoform	1.0	U	5.0	1.0	0.37
74-83-9	Bromomethane	2.0	U	10	2.0	0.40
75-15-0	Carbon disulfide	1.0	U	5.0	1.0	0.37
56-23-5	Carbon tetrachloride	1.0	U	5.0	1.0	0.36
108-90-7	Chlorobenzene	1.0	U	5.0	1.0	0.38
75-00-3	Chloroethane	1.0	U	10	1.0	0.38
67-66-3	Chloroform	1.0	U	5.0	1.0	0.15
74-87-3	Chloromethane	2.0	U	10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	1.0	U	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 160-288297/7

Matrix: Water Lab File ID: XBLK5236.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 01/19/2017 16:57

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 288297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	1.0	U	5.0	1.0	0.34
124-48-1	Dibromochloromethane	1.0	U	5.0	1.0	0.33
74-95-3	Dibromomethane	2.0	U	5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	2.0	U	10	2.0	0.45
100-41-4	Ethylbenzene	1.0	U	5.0	1.0	0.30
98-82-8	Isopropylbenzene	2.0	U	5.0	2.0	0.26
179601-23-1	m,p-Xylenes	1.0	U	5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	2.0	U	5.0	2.0	0.40
75-09-2	Methylene Chloride	5.0	U	7.5	5.0	1.7
91-20-3	Naphthalene	2.0	U	5.0	2.0	0.85
104-51-8	n-Butylbenzene	2.0	U	5.0	2.0	0.23
103-65-1	N-Propylbenzene	2.0	U	5.0	2.0	0.30
95-47-6	o-Xylene	1.0	U	5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	2.0	U	5.0	2.0	0.32
135-98-8	sec-Butylbenzene	2.0	U	5.0	2.0	0.31
100-42-5	Styrene	1.0	U	5.0	1.0	0.35
98-06-6	tert-Butylbenzene	2.0	U	5.0	2.0	0.31
127-18-4	Tetrachloroethene	1.0	U	5.0	1.0	0.28
108-88-3	Toluene	1.0	U	5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	1.0	U	5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	1.0	U	5.0	1.0	0.35
79-01-6	Trichloroethene	1.0	U	5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	2.0	U	5.0	2.0	0.22
75-01-4	Vinyl chloride	1.0	U	5.0	1.0	0.43
1330-20-7	Xylenes (total)	5.0	U	10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		81-118
460-00-4	4-Bromofluorobenzene (Surr)	90		85-114
1868-53-7	Dibromofluoromethane (Surr)	105		80-119
2037-26-5	Toluene-d8 (Surr)	100		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XBLK5236.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 19-Jan-2017 16:57:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009574-007
 Misc. Info.: MB
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Jan-2017 14:25:25 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D
 Column 1 : Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: hannj

Date: 23-Jan-2017 14:32:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.913					ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.079					ND	
3 Chloromethane	50		2.126					ND	
4 Vinyl chloride	62		2.233					ND	
121 Butadiene	39		2.256					ND	
5 Bromomethane	94		2.623					ND	
6 Chloroethane	64		2.789					ND	
7 Trichlorofluoromethane	101		2.966					ND	
122 Dichlorofluoromethane	67		3.061					ND	
8 Ethyl ether	74		3.416					ND	
11 Ethanol	45		3.664					ND	
9 1,1-Dichloroethene	96		3.664					ND	
10 Carbon disulfide	76		3.676					ND	
12 1,1,2-Trichloro-1,2,2-trif	151		3.771					ND	
13 Iodomethane	142		3.854					ND	
14 Acrolein	56		4.209					ND	
15 3-Chloro-1-propene	39		4.422					ND	
16 Isopropyl alcohol	45		4.564					ND	
17 Methylene Chloride	84		4.599					ND	
18 Acetone	43		4.718					ND	
19 trans-1,2-Dichloroethene	96		4.860					ND	
20 Methyl acetate	74		4.942					ND	
21 Hexane	86		5.013					ND	
22 Methyl tert-butyl ether	73		5.084					ND	
23 2-Methyl-2-propanol	59		5.297					ND	
24 Acetonitrile	41		5.451					ND	
25 Isopropyl ether	45		5.712					ND	
27 2-Chloro-1,3-butadiene	53		5.794					ND	
S 26 1,2-Dichloroethene, Total	96		5.816					ND	
28 1,1-Dichloroethane	63		5.830					ND	
29 Acrylonitrile	53		5.925					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		6.256					ND	
31 Vinyl acetate	43		6.268					ND	
32 cis-1,2-Dichloroethene	96		6.623					ND	
33 2,2-Dichloropropane	77		6.765					ND	
34 Cyclohexane	84		6.871					ND	
35 Chlorobromomethane	128		6.883					ND	
36 Chloroform	83		7.013					ND	
37 Carbon tetrachloride	117		7.167					ND	
38 Tetrahydrofuran	71		7.226					ND	
39 Ethyl acetate	45		7.238					ND	
\$ 41 Dibromofluoromethane (Surr	113	7.250	7.262	-0.012	93	257910	50.0	52.6	
40 1,1,1-Trichloroethane	97		7.262					ND	
42 1,1-Dichloropropene	75		7.439					ND	
43 2-Butanone (MEK)	43		7.463					ND	
124 Isooctane	57		7.605					ND	
117 n-Heptane	43		7.759					ND	
44 Benzene	78		7.759					ND	
45 Propionitrile	54		7.830					ND	
46 Methacrylonitrile	41		7.853					ND	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	31	291105	50.0	56.1	
48 Tert-amyl methyl ether	73		7.960					ND	
49 1,2-Dichloroethane	62		8.043					ND	
50 Isobutyl alcohol	42		8.149					ND	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1256158	50.0	50.0	
125 1,4-Difluorobenzene	114		8.427					ND	
52 Methylcyclohexane	55		8.504					ND	
53 Trichloroethene	95		8.528					ND	
A 126 C6-C12	1	8.945	(3.966-13.924)		0	82153		NC	
54 n-Butanol	56		9.037					ND	
55 Dibromomethane	93		9.060					ND	
56 1,2-Dichloropropane	63		9.190					ND	
123 Ethyl acrylate	55		9.285					ND	
57 Dichlorobromomethane	83		9.285					ND	
58 Methyl methacrylate	69		9.534					ND	
59 1,4-Dioxane	88		9.557					ND	
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63		10.031					ND	
61 cis-1,3-Dichloropropene	75		10.078					ND	
\$ 62 Toluene-d8 (Surr)	98	10.303	10.315	-0.012	94	1209242	50.0	50.1	
63 Toluene	92		10.374					ND	
64 2-Nitropropane	43		10.670					ND	
65 Tetrachloroethene	164		10.823					ND	
66 4-Methyl-2-pentanone (MIBK	43		10.859					ND	
67 trans-1,3-Dichloropropene	75		10.883					ND	
68 1,1,2-Trichloroethane	83		11.060					ND	
69 Ethyl methacrylate	69		11.096					ND	
70 Chlorodibromomethane	129		11.249					ND	
71 1,3-Dichloropropane	76		11.356					ND	
72 Ethylene Dibromide	107		11.498					ND	
S 73 1,3-Dichloropropene, Total	75		11.620					ND	
118 n-Butyl acetate	43		11.687					ND	
74 2-Hexanone	43		11.770					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	12.030	12.042	-0.012	89	789122	50.0	50.0	
75 1-Chlorohexane	91		12.042					ND	
77 Chlorobenzene	112		12.054					ND	
78 Ethylbenzene	91		12.090					ND	
79 1,1,1,2-Tetrachloroethane	131		12.125					ND	
80 m-Xylene & p-Xylene	106		12.243					ND	
82 o-Xylene	106		12.657					ND	
83 Styrene	104		12.717					ND	
84 Bromoform	173		12.728					ND	
85 Isopropylbenzene	105		12.965					ND	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	84	394159	50.0	45.0	
87 Bromobenzene	156		13.320					ND	
88 N-Propylbenzene	91		13.356					ND	
89 1,1,2,2-Tetrachloroethane	83		13.427					ND	
90 2-Chlorotoluene	91		13.486					ND	
91 1,3,5-Trimethylbenzene	105		13.533					ND	
92 1,2,3-Trichloropropane	110		13.545					ND	
93 trans-1,4-Dichloro-2-buten	53		13.580					ND	
94 Cyclohexanone	55		13.580					ND	
95 4-Chlorotoluene	91		13.640					ND	
81 Pentachloroethane	167		13.776					ND	
96 tert-Butylbenzene	119		13.817					ND	
97 1,2,4-Trimethylbenzene	105		13.888					ND	
98 sec-Butylbenzene	105		13.983					ND	
99 4-Isopropyltoluene	119		14.113					ND	
100 1,3-Dichlorobenzene	146		14.172					ND	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	358112	50.0	50.0	
102 1,4-Dichlorobenzene	146		14.255					ND	
119 1,2,3-Trimethylbenzene	105		14.279					ND	
120 Benzyl chloride	126		14.480					ND	
103 n-Butylbenzene	134		14.480					ND	
104 1,2-Dichlorobenzene	146		14.622					ND	
105 1,2-Dibromo-3-Chloropropan	157		15.320					ND	
106 n-Nonyl Aldehyde	57		15.332					ND	
107 1,3,5-Trichlorobenzene	180		15.344					ND	
108 Hexachlorobutadiene	225		15.864					ND	
109 1,2,4-Trichlorobenzene	180		15.888					ND	
110 Naphthalene	128		16.172					ND	
111 1,2,3-Trichlorobenzene	180		16.326					ND	
S 112 Xylenes, Total	106		16.500					ND	
S 113 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XBLK5236.D

Injection Date: 19-Jan-2017 16:57:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: MB

Worklist Smp#: 7

Client ID:

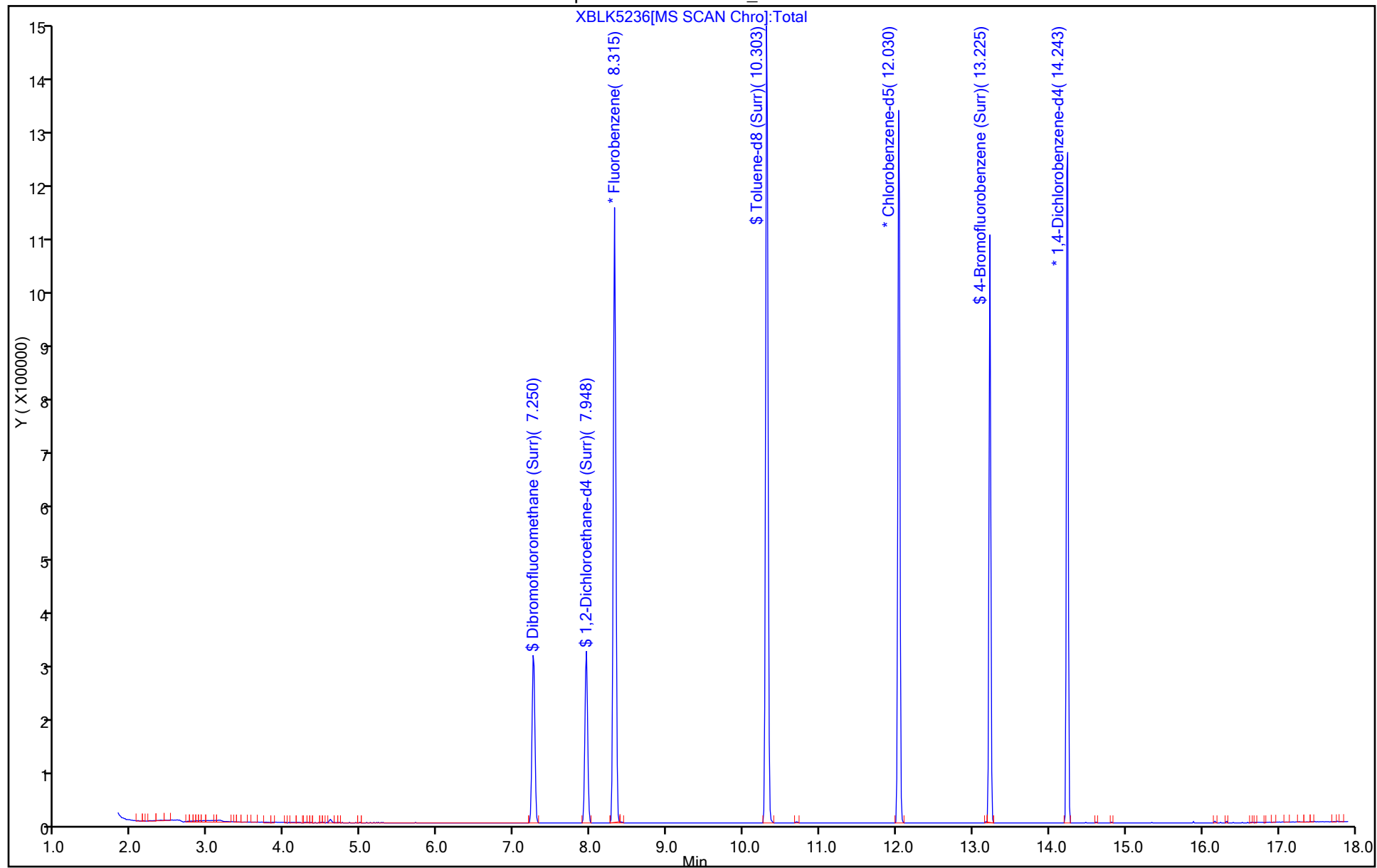
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XBLK5236.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 19-Jan-2017 16:57:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009574-007
Misc. Info.: MB
Operator ID: JDH Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 23-Jan-2017 14:25:25 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D
Column 1 : Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: hannj

Date: 23-Jan-2017 14:32:46

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	52.6	105.11
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	56.1	112.14
\$ 62 Toluene-d8 (Surr)	50.0	50.1	100.29
\$ 86 4-Bromofluorobenzene (Surr)	50.0	45.0	89.92

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 160-287920/4

Matrix: Water Lab File ID: XLCS5170.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 01/16/2017 18:19

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	50.2		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	49.9		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	45.0		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	46.9		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	47.3		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	49.5		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	49.0		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	50.9		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	47.1		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	48.1		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	46.8		10	2.0	1.2
106-93-4	1,2-Dibromoethane	48.3		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	48.6		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	47.5		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	47.9		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	46.5		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	46.5		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	49.7		20	5.0	0.39
95-49-8	2-Chlorotoluene	47.5		5.0	2.0	0.34
591-78-6	2-Hexanone	46.4		20	2.0	0.59
106-43-4	4-Chlorotoluene	46.6		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	46.2		20	2.0	0.33
67-64-1	Acetone	56.0		20	10	6.7
71-43-2	Benzene	45.7		5.0	1.0	0.25
108-86-1	Bromobenzene	48.0		5.0	2.0	0.33
74-97-5	Bromochloromethane	50.4		5.0	2.0	0.55
75-27-4	Bromodichloromethane	51.5		5.0	2.0	0.25
75-25-2	Bromoform	54.0		5.0	1.0	0.37
74-83-9	Bromomethane	53.0		10	2.0	0.40
75-15-0	Carbon disulfide	49.1		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	52.1		5.0	1.0	0.36
108-90-7	Chlorobenzene	48.8		5.0	1.0	0.38
75-00-3	Chloroethane	46.4		10	1.0	0.38
67-66-3	Chloroform	48.9		5.0	1.0	0.15
74-87-3	Chloromethane	48.0		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	47.4		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 160-287920/4

Matrix: Water Lab File ID: XLCS5170.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 01/16/2017 18:19

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	50.1		5.0	1.0	0.34
124-48-1	Dibromochloromethane	51.5		5.0	1.0	0.33
74-95-3	Dibromomethane	50.7		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	56.6		10	2.0	0.45
100-41-4	Ethylbenzene	46.6		5.0	1.0	0.30
98-82-8	Isopropylbenzene	47.7		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	47.3		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	44.5		5.0	2.0	0.40
75-09-2	Methylene Chloride	47.7		7.5	5.0	1.7
91-20-3	Naphthalene	49.1		5.0	2.0	0.85
104-51-8	n-Butylbenzene	50.7		5.0	2.0	0.23
103-65-1	N-Propylbenzene	48.6		5.0	2.0	0.30
95-47-6	o-Xylene	47.6		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	49.3		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	49.1		5.0	2.0	0.31
100-42-5	Styrene	47.1		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	48.3		5.0	2.0	0.31
127-18-4	Tetrachloroethene	49.8		5.0	1.0	0.28
108-88-3	Toluene	45.8		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	48.1		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	48.9		5.0	1.0	0.35
79-01-6	Trichloroethene	49.4		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	54.9		5.0	2.0	0.22
75-01-4	Vinyl chloride	51.1		5.0	1.0	0.43
1330-20-7	Xylenes (total)	94.9		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		81-118
460-00-4	4-Bromofluorobenzene (Surr)	94		85-114
1868-53-7	Dibromofluoromethane (Surr)	104		80-119
2037-26-5	Toluene-d8 (Surr)	100		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\MSX\20170116-9564.b\XLCS5170.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 16-Jan-2017 18:19:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-004
 Misc. Info.: LCS
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\MSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\MSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:10:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.913	1.913	0.000	99	512727	50.0	56.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.067	2.067	0.000	99	237677	50.0	51.1	
3 Chloromethane	50	2.126	2.126	0.000	99	589427	50.0	48.0	
4 Vinyl chloride	62	2.232	2.233	-0.001	98	486146	50.0	51.1	
121 Butadiene	39	2.256	2.256	0.000	87	448810	50.0	51.7	
5 Bromomethane	94	2.623	2.623	0.000	92	155705	50.0	53.0	
6 Chloroethane	64	2.789	2.789	0.000	98	151628	50.0	46.4	
7 Trichlorofluoromethane	101	2.966	2.966	0.000	99	439003	50.0	54.9	
122 Dichlorofluoromethane	67	3.061	3.061	0.000	97	473169	50.0	52.2	
8 Ethyl ether	74	3.404	3.404	0.000	94	166112	50.0	48.8	
11 Ethanol	45	3.652	3.653	-0.001	30	80111	2000.0	2016.9	
9 1,1-Dichloroethene	96	3.652	3.664	-0.012	92	380913	50.0	49.5	
10 Carbon disulfide	76	3.664	3.664	0.000	100	1305740	50.0	49.1	
12 1,1,2-Trichloro-1,2,2-trif	151	3.771	3.771	0.000	94	300638	50.0	51.1	
13 Iodomethane	142	3.854	3.854	0.000	99	515366	50.0	49.8	
14 Acrolein	56	4.197	4.197	0.000	100	129937	250.0	181.6	
15 3-Chloro-1-propene	39	4.410	4.422	-0.012	91	475762	50.0	50.5	
16 Isopropyl alcohol	45	4.552	4.564	-0.012	98	103842	500.0	502.7	
17 Methylene Chloride	84	4.587	4.587	0.000	99	319355	50.0	47.7	
18 Acetone	43	4.706	4.706	0.000	100	52713	50.0	56.0	
19 trans-1,2-Dichloroethene	96	4.859	4.860	-0.001	94	385597	50.0	48.1	
20 Methyl acetate	74	4.942	4.942	0.000	98	128090	250.0	249.1	
21 Hexane	86	5.013	5.013	0.000	87	135558	50.0	47.8	
22 Methyl tert-butyl ether	73	5.072	5.084	-0.012	89	597692	50.0	44.5	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	97	155825	500.0	456.6	
24 Acetonitrile	41	5.439	5.439	0.000	100	205223	500.0	474.7	
25 Isopropyl ether	45	5.700	5.700	0.000	95	1195071	50.0	47.3	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	93	750272	50.0	48.1	
28 1,1-Dichloroethane	63	5.818	5.830	-0.012	96	707085	50.0	47.3	
29 Acrylonitrile	53	5.924	5.925	0.000	99	652472	500.0	474.8	
30 Tert-butyl ethyl ether	59	6.244	6.244	0.000	98	940702	50.0	45.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Vinyl acetate	43	6.256	6.256	0.000	97	574201	50.0	48.4	
32 cis-1,2-Dichloroethene	96	6.611	6.611	0.000	83	374259	50.0	47.4	
33 2,2-Dichloropropane	77	6.753	6.753	0.000	92	428722	50.0	46.5	
34 Cyclohexane	84	6.859	6.859	0.000	92	653511	50.0	47.9	
35 Chlorobromomethane	128	6.883	6.883	0.000	93	126082	50.0	50.4	
36 Chloroform	83	7.013	7.013	0.000	94	590621	50.0	48.9	
37 Carbon tetrachloride	117	7.155	7.155	0.000	98	515251	50.0	52.1	
38 Tetrahydrofuran	71	7.214	7.214	0.000	93	33268	100.0	95.2	
39 Ethyl acetate	45	7.226	7.226	0.000	98	51296	100.0	100.3	
\$ 41 Dibromofluoromethane (Surr	113	7.250	7.250	0.000	91	269955	50.0	52.2	
40 1,1,1-Trichloroethane	97	7.261	7.262	-0.001	98	572229	50.0	49.9	
42 1,1-Dichloropropene	75	7.427	7.427	0.000	95	550535	50.0	49.0	
43 2-Butanone (MEK)	43	7.451	7.451	0.000	99	80292	50.0	49.7	
124 Isooctane	57	7.605	7.593	0.012	96	1998154	50.0	47.2	
117 n-Heptane	43	7.758	7.759	-0.001	80	845305	50.0	48.7	
44 Benzene	78	7.758	7.759	-0.001	97	1417677	50.0	45.7	
45 Propionitrile	54	7.829	7.830	-0.001	95	238604	500.0	498.3	
46 Methacrylonitrile	41	7.853	7.853	0.000	93	1099767	500.0	496.8	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	88	282312	50.0	51.6	
48 Tert-amyl methyl ether	73	7.960	7.960	0.000	96	640643	50.0	45.7	
49 1,2-Dichloroethane	62	8.031	8.031	0.000	97	348042	50.0	48.6	
50 Isobutyl alcohol	42	8.149	8.149	0.000	93	109552	1250.0	1209.2	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1323307	50.0	50.0	
52 Methylcyclohexane	55	8.492	8.492	0.000	95	725484	50.0	48.4	
53 Trichloroethene	95	8.528	8.528	0.000	97	366191	50.0	49.4	
54 n-Butanol	56	9.036	9.037	-0.001	90	109336	1250.0	1087.6	
55 Dibromomethane	93	9.048	9.048	0.000	96	132663	50.0	50.7	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	95	360915	50.0	47.5	
123 Ethyl acrylate	55	9.273	9.273	0.000	98	248932	50.0	46.1	
57 Dichlorobromomethane	83	9.285	9.285	0.000	100	384245	50.0	51.5	
58 Methyl methacrylate	69	9.522	9.522	0.000	94	250421	100.0	95.9	
59 1,4-Dioxane	88	9.545	9.545	0.000	82	33229	1000.0	1092.9	M
60 2-Chloroethyl vinyl ether	63	10.030	10.031	-0.001	91	123615	50.0	43.1	
61 cis-1,3-Dichloropropene	75	10.078	10.078	0.000	94	494259	50.0	50.1	
\$ 62 Toluene-d8 (Surr)	98	10.303	10.303	0.000	94	1314144	50.0	50.0	
63 Toluene	92	10.374	10.374	0.000	98	893455	50.0	45.8	
64 2-Nitropropane	43	10.669	10.670	-0.001	98	74087	100.0	81.8	
65 Tetrachloroethene	164	10.823	10.823	0.000	98	311275	50.0	49.8	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	95	168499	50.0	46.2	
67 trans-1,3-Dichloropropene	75	10.882	10.882	0.000	95	383296	50.0	48.9	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	91	164289	50.0	46.9	
69 Ethyl methacrylate	69	11.095	11.095	0.000	83	244968	50.0	44.1	M
70 Chlorodibromomethane	129	11.249	11.249	0.000	91	224982	50.0	51.5	
71 1,3-Dichloropropane	76	11.356	11.356	0.000	95	364701	50.0	46.5	
72 Ethylene Dibromide	107	11.486	11.498	-0.012	98	180796	50.0	48.3	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	301480	50.0	44.1	
74 2-Hexanone	43	11.770	11.770	0.000	96	117076	50.0	46.4	
* 76 Chlorobenzene-d5	117	12.030	12.030	0.000	89	860743	50.0	50.0	
75 1-Chlorohexane	91	12.042	12.042	0.000	90	626086	50.0	54.9	
77 Chlorobenzene	112	12.054	12.054	0.000	97	838888	50.0	48.8	
78 Ethylbenzene	91	12.089	12.089	0.000	98	1713859	50.0	46.6	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	94	272837	50.0	50.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	655433	50.0	47.3	
82 o-Xylene	106	12.657	12.657	0.000	98	605247	50.0	47.6	
83 Styrene	104	12.716	12.717	-0.001	95	889394	50.0	47.1	
84 Bromoform	173	12.728	12.728	0.000	97	104143	50.0	54.0	
85 Isopropylbenzene	105	12.965	12.965	0.000	96	1692842	50.0	47.7	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	85	421575	50.0	47.2	
87 Bromobenzene	156	13.320	13.320	0.000	95	316283	50.0	48.0	
88 N-Propylbenzene	91	13.355	13.356	-0.001	98	1942634	50.0	48.6	
89 1,1,2,2-Tetrachloroethane	83	13.415	13.415	0.000	95	187009	50.0	45.0	
90 2-Chlorotoluene	91	13.486	13.486	0.000	96	1116296	50.0	47.5	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	94	1303866	50.0	47.9	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	85	56641	50.0	47.1	
93 trans-1,4-Dichloro-2-buten	53	13.580	13.580	0.000	88	67650	50.0	49.1	
94 Cyclohexanone	55	13.580	13.580	0.000	73	52700	500.0	447.7	
95 4-Chlorotoluene	91	13.639	13.640	-0.001	99	1078961	50.0	46.6	
96 tert-Butylbenzene	119	13.817	13.817	0.000	94	1164788	50.0	48.3	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	1282272	50.0	48.1	
98 sec-Butylbenzene	105	13.983	13.983	0.000	95	1795232	50.0	49.1	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	1439399	50.0	49.3	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	98	621446	50.0	48.2	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	96	364913	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	93	585112	50.0	48.7	
119 1,2,3-Trimethylbenzene	105	14.278	14.267	0.011	99	1173613	50.0	48.5	
120 Benzyl chloride	126	14.480	14.480	0.000	90	76010	50.0	52.3	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	370264	50.0	50.7	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	96	524820	50.0	47.9	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	88	29011	50.0	46.8	
106 n-Nonyl Aldehyde	57	15.332	15.332	0.000	61	150494	50.0	45.7	
107 1,3,5-Trichlorobenzene	180	15.343	15.344	-0.001	98	480306	50.0	52.5	
108 Hexachlorobutadiene	225	15.852	15.852	0.000	96	256475	50.0	55.0	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	94	376817	50.0	50.2	
110 Naphthalene	128	16.172	16.172	0.000	97	629294	50.0	49.1	
111 1,2,3-Trichlorobenzene	180	16.325	16.326	-0.001	96	308058	50.0	50.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 NewWkMix_00202

Amount Added: 10.00

Units: uL

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\MSX\20170116-9564.b\XLCS5170.D

Injection Date: 16-Jan-2017 18:19:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: LCS

Worklist Smp#: 4

Client ID:

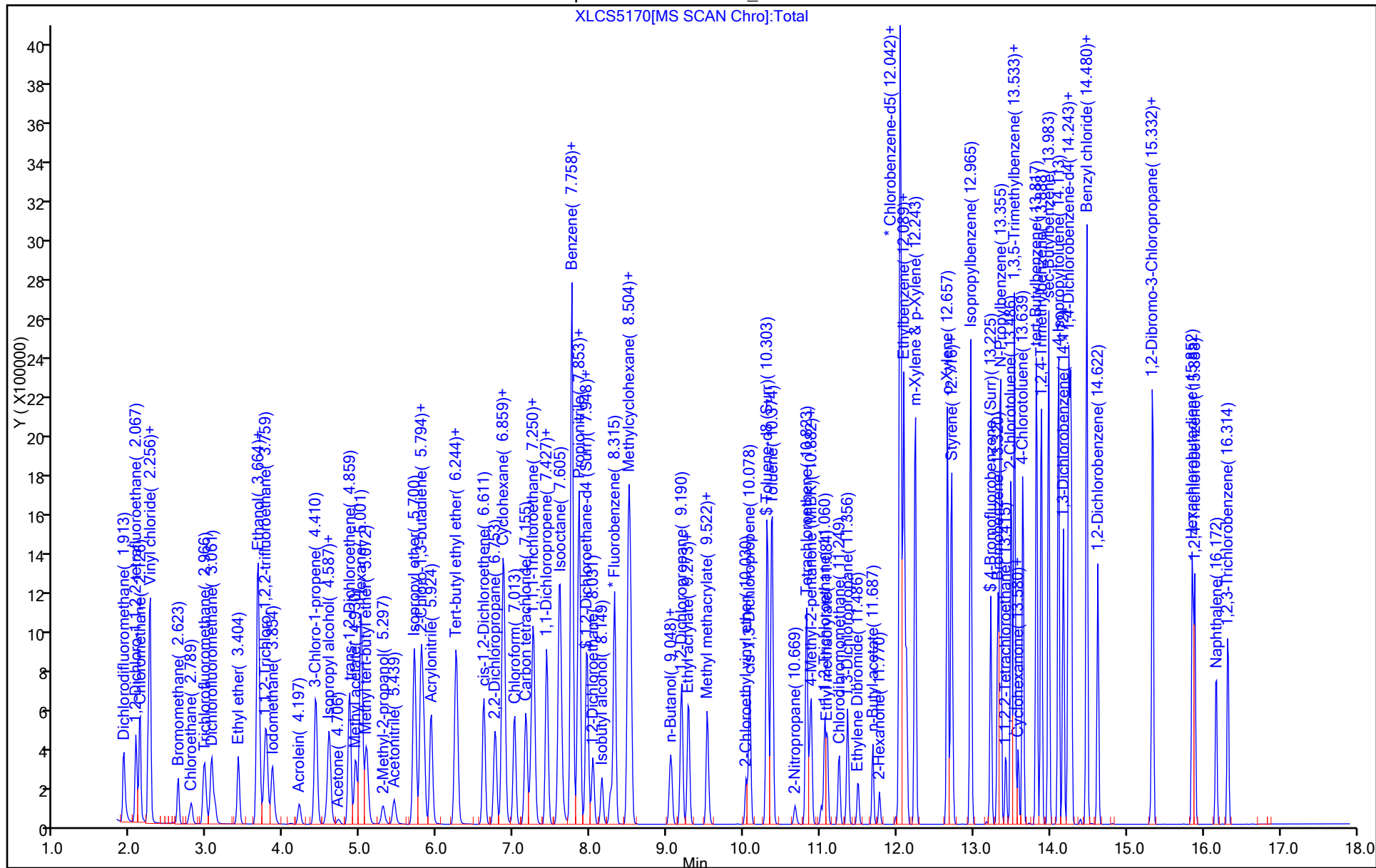
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XLCS5170.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 16-Jan-2017 18:19:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009564-004
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:10:07

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	52.2	104.44
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.6	103.23
\$ 62 Toluene-d8 (Surr)	50.0	50.0	99.92
\$ 86 4-Bromofluorobenzene (Surr)	50.0	47.2	94.38

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 160-288297/4

Matrix: Water Lab File ID: XLCS5233.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 01/19/2017 15:26

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 288297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	48.3		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	50.5		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	48.4		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	48.1		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	48.3		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	50.0		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	48.9		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	51.7		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	50.2		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	48.2		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	52.3		10	2.0	1.2
106-93-4	1,2-Dibromoethane	49.5		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	49.9		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	49.2		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	47.7		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	48.2		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	46.2		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	55.4		20	5.0	0.39
95-49-8	2-Chlorotoluene	47.1		5.0	2.0	0.34
591-78-6	2-Hexanone	52.3		20	2.0	0.59
106-43-4	4-Chlorotoluene	46.8		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	51.4		20	2.0	0.33
67-64-1	Acetone	59.4		20	10	6.7
71-43-2	Benzene	45.8		5.0	1.0	0.25
108-86-1	Bromobenzene	47.0		5.0	2.0	0.33
74-97-5	Bromochloromethane	49.8		5.0	2.0	0.55
75-27-4	Bromodichloromethane	51.0		5.0	2.0	0.25
75-25-2	Bromoform	53.8		5.0	1.0	0.37
74-83-9	Bromomethane	60.1		10	2.0	0.40
75-15-0	Carbon disulfide	50.0		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	51.4		5.0	1.0	0.36
108-90-7	Chlorobenzene	48.0		5.0	1.0	0.38
75-00-3	Chloroethane	52.6		10	1.0	0.38
67-66-3	Chloroform	48.3		5.0	1.0	0.15
74-87-3	Chloromethane	51.7		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	47.7		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 160-288297/4

Matrix: Water Lab File ID: XLCS5233.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 01/19/2017 15:26

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 288297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	50.4		5.0	1.0	0.34
124-48-1	Dibromochloromethane	51.1		5.0	1.0	0.33
74-95-3	Dibromomethane	50.3		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	58.0		10	2.0	0.45
100-41-4	Ethylbenzene	45.4		5.0	1.0	0.30
98-82-8	Isopropylbenzene	47.1		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	46.5		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	46.8		5.0	2.0	0.40
75-09-2	Methylene Chloride	48.8		7.5	5.0	1.7
91-20-3	Naphthalene	53.6		5.0	2.0	0.85
104-51-8	n-Butylbenzene	49.9		5.0	2.0	0.23
103-65-1	N-Propylbenzene	48.2		5.0	2.0	0.30
95-47-6	o-Xylene	47.3		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	48.8		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	49.2		5.0	2.0	0.31
100-42-5	Styrene	47.4		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	47.7		5.0	2.0	0.31
127-18-4	Tetrachloroethene	48.0		5.0	1.0	0.28
108-88-3	Toluene	45.3		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	48.8		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	49.0		5.0	1.0	0.35
79-01-6	Trichloroethene	49.9		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	58.0		5.0	2.0	0.22
75-01-4	Vinyl chloride	54.8		5.0	1.0	0.43
1330-20-7	Xylenes (total)	93.8		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		81-118
460-00-4	4-Bromofluorobenzene (Surr)	96		85-114
1868-53-7	Dibromofluoromethane (Surr)	104		80-119
2037-26-5	Toluene-d8 (Surr)	101		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XLCS5233.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 19-Jan-2017 15:26:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009590-004
 Misc. Info.: LCS
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Jan-2017 14:22:18 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: hannj Date: 23-Jan-2017 14:22:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.901	1.913	-0.012	99	468804	50.0	58.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.067	2.079	-0.012	99	215308	50.0	52.0	
3 Chloromethane	50	2.114	2.126	-0.012	99	565401	50.0	51.7	
4 Vinyl chloride	62	2.221	2.233	-0.012	99	464264	50.0	54.8	
121 Butadiene	39	2.244	2.256	-0.012	87	413201	50.0	53.5	
5 Bromomethane	94	2.611	2.623	-0.012	92	157232	50.0	60.1	
6 Chloroethane	64	2.777	2.789	-0.012	99	153197	50.0	52.6	
7 Trichlorofluoromethane	101	2.954	2.966	-0.012	99	413116	50.0	58.0	
122 Dichlorofluoromethane	67	3.049	3.061	-0.012	97	448672	50.0	55.6	
8 Ethyl ether	74	3.404	3.416	-0.012	95	154417	50.0	50.9	
11 Ethanol	45	3.653	3.664	-0.011	31	82566	2000.0	2333.3	
9 1,1-Dichloroethene	96	3.653	3.664	-0.011	92	342734	50.0	50.0	
10 Carbon disulfide	76	3.664	3.676	-0.012	100	1185383	50.0	50.0	
12 1,1,2-Trichloro-1,2,2-trif	151	3.759	3.771	-0.012	95	264450	50.0	50.5	
13 Iodomethane	142	3.854	3.854	0.000	100	446585	50.0	48.5	
14 Acrolein	56	4.197	4.209	-0.012	100	130222	250.0	204.3	
15 3-Chloro-1-propene	39	4.410	4.422	-0.012	92	415305	50.0	49.5	
16 Isopropyl alcohol	45	4.552	4.564	-0.012	98	103333	500.0	561.4	
17 Methylene Chloride	84	4.587	4.599	-0.012	99	291414	50.0	48.8	
18 Acetone	43	4.718	4.718	0.000	99	49656	50.0	59.4	
19 trans-1,2-Dichloroethene	96	4.860	4.860	0.000	94	348538	50.0	48.8	
20 Methyl acetate	74	4.931	4.942	-0.011	99	124499	250.0	271.8	
21 Hexane	86	5.002	5.013	-0.011	86	122689	50.0	48.6	
22 Methyl tert-butyl ether	73	5.073	5.084	-0.011	91	559767	50.0	46.8	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	98	166969	500.0	549.2	
24 Acetonitrile	41	5.439	5.451	-0.012	99	210577	500.0	546.7	
25 Isopropyl ether	45	5.700	5.712	-0.012	96	1095144	50.0	48.6	
27 2-Chloro-1,3-butadiene	53	5.783	5.794	-0.012	93	693307	50.0	49.9	
28 1,1-Dichloroethane	63	5.818	5.830	-0.012	96	643862	50.0	48.3	
29 Acrylonitrile	53	5.925	5.925	-0.001	99	671730	500.0	548.7	
30 Tert-butyl ethyl ether	59	6.244	6.256	-0.012	99	879985	50.0	47.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Vinyl acetate	43	6.256	6.268	-0.012	97	545169	50.0	51.6	
32 cis-1,2-Dichloroethene	96	6.611	6.623	-0.012	84	335753	50.0	47.7	
33 2,2-Dichloropropane	77	6.753	6.765	-0.012	92	378909	50.0	46.2	
34 Cyclohexane	84	6.859	6.871	-0.012	93	589774	50.0	48.5	
35 Chlorobromomethane	128	6.883	6.883	0.000	93	111062	50.0	49.8	
36 Chloroform	83	7.001	7.013	-0.012	94	519610	50.0	48.3	
37 Carbon tetrachloride	117	7.155	7.167	-0.012	98	452874	50.0	51.4	
38 Tetrahydrofuran	71	7.214	7.226	-0.012	90	34761	100.0	111.7	
39 Ethyl acetate	45	7.226	7.238	-0.012	97	51133	100.0	112.2	
\$ 41 Dibromofluoromethane (Surr	113	7.250	7.262	-0.012	92	240157	50.0	52.1	
40 1,1,1-Trichloroethane	97	7.262	7.262	0.000	98	515197	50.0	50.5	
42 1,1-Dichloropropene	75	7.427	7.439	-0.012	95	490352	50.0	48.9	
43 2-Butanone (MEK)	43	7.451	7.463	-0.012	98	79704	50.0	55.4	
124 Isooctane	57	7.593	7.605	-0.012	95	1876923	50.0	49.8	
117 n-Heptane	43	7.759	7.759	0.000	95	773520	50.0	50.0	
44 Benzene	78	7.759	7.759	0.000	98	1268305	50.0	45.8	
45 Propionitrile	54	7.830	7.830	0.000	96	242799	500.0	569.1	
46 Methacrylonitrile	41	7.853	7.853	0.000	93	1065796	500.0	540.4	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	88	262644	50.0	53.9	
48 Tert-amyl methyl ether	73	7.960	7.960	0.000	96	595198	50.0	47.6	
49 1,2-Dichloroethane	62	8.031	8.043	-0.012	97	318570	50.0	49.9	
50 Isobutyl alcohol	42	8.149	8.149	0.000	95	112064	1250.0	1388.4	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1178955	50.0	50.0	
52 Methylcyclohexane	55	8.492	8.504	-0.012	95	675655	50.0	50.6	
53 Trichloroethene	95	8.528	8.528	0.000	97	329399	50.0	49.9	
54 n-Butanol	56	9.037	9.037	0.000	87	116703	1250.0	1285.8	
55 Dibromomethane	93	9.048	9.060	-0.012	96	117354	50.0	50.3	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	96	333063	50.0	49.2	
123 Ethyl acrylate	55	9.273	9.285	-0.012	98	251715	50.0	52.3	
57 Dichlorobromomethane	83	9.273	9.285	-0.012	98	339168	50.0	51.0	
58 Methyl methacrylate	69	9.522	9.534	-0.012	95	240270	100.0	103.2	
59 1,4-Dioxane	88	9.545	9.545	-0.012	82	31702	1000.0	1167.8	M
60 2-Chloroethyl vinyl ether	63	10.031	10.031	0.000	91	120792	50.0	47.2	
61 cis-1,3-Dichloropropene	75	10.078	10.078	0.000	94	443041	50.0	50.4	
\$ 62 Toluene-d8 (Surr)	98	10.303	10.315	-0.012	94	1193417	50.0	50.7	
63 Toluene	92	10.362	10.374	-0.012	98	792097	50.0	45.3	
64 2-Nitropropane	43	10.669	10.670	-0.001	98	77166	100.0	93.5	
65 Tetrachloroethene	164	10.823	10.823	0.000	94	268799	50.0	48.0	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	96	167951	50.0	51.4	
67 trans-1,3-Dichloropropene	75	10.882	10.883	-0.001	95	344288	50.0	49.0	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	92	150923	50.0	48.1	
69 Ethyl methacrylate	69	11.095	11.096	-0.001	83	232092	50.0	46.6	
70 Chlorodibromomethane	129	11.249	11.249	0.000	91	199794	50.0	51.1	
71 1,3-Dichloropropane	76	11.356	11.356	0.000	94	338689	50.0	48.2	
72 Ethylene Dibromide	107	11.486	11.498	-0.012	98	165922	50.0	49.5	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	295145	50.0	48.2	
74 2-Hexanone	43	11.770	11.770	0.000	96	118390	50.0	52.3	
* 76 Chlorobenzene-d5	117	12.030	12.042	-0.012	89	770961	50.0	50.0	
75 1-Chlorohexane	91	12.042	12.042	0.000	95	574039	50.0	56.2	
77 Chlorobenzene	112	12.054	12.054	0.000	96	739571	50.0	48.0	
78 Ethylbenzene	91	12.089	12.090	-0.001	99	1496071	50.0	45.4	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	93	235395	50.0	48.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	577263	50.0	46.5	
82 o-Xylene	106	12.657	12.657	0.000	98	538974	50.0	47.3	
83 Styrene	104	12.717	12.717	0.000	95	802314	50.0	47.4	
84 Bromoform	173	12.728	12.728	0.000	96	93530	50.0	53.8	
85 Isopropylbenzene	105	12.965	12.965	0.000	97	1506003	50.0	47.1	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	84	384367	50.0	47.8	
87 Bromobenzene	156	13.320	13.320	0.000	98	278985	50.0	47.0	
88 N-Propylbenzene	91	13.356	13.356	0.000	98	1735525	50.0	48.2	
89 1,1,2,2-Tetrachloroethane	83	13.415	13.427	-0.012	96	181131	50.0	48.4	
90 2-Chlorotoluene	91	13.486	13.486	0.000	96	997618	50.0	47.1	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	94	1168904	50.0	47.7	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	86	54435	50.0	50.2	
93 trans-1,4-Dichloro-2-buten	53	13.580	13.580	0.000	88	65074	50.0	52.4	
94 Cyclohexanone	55	13.580	13.580	0.000	78	57378	500.0	540.9	
95 4-Chlorotoluene	91	13.640	13.640	0.000	99	976637	50.0	46.8	
96 tert-Butylbenzene	119	13.817	13.817	0.000	94	1038011	50.0	47.7	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	1158830	50.0	48.2	
98 sec-Butylbenzene	105	13.983	13.983	0.000	95	1620951	50.0	49.2	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	1284436	50.0	48.8	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	98	549076	50.0	47.2	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	96	328787	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	93	523266	50.0	48.4	
119 1,2,3-Trimethylbenzene	105	14.267	14.279	-0.012	99	1057399	50.0	48.5	
120 Benzyl chloride	126	14.480	14.480	0.000	90	70933	50.0	54.2	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	328045	50.0	49.9	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	96	473130	50.0	47.9	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	85	29204	50.0	52.3	
106 n-Nonyl Aldehyde	57	15.332	15.332	0.000	64	153893	50.0	51.5	
107 1,3,5-Trichlorobenzene	180	15.343	15.344	-0.001	97	424235	50.0	51.5	
108 Hexachlorobutadiene	225	15.852	15.864	-0.012	96	224312	50.0	53.4	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	94	339925	50.0	50.3	
110 Naphthalene	128	16.172	16.172	0.000	97	618607	50.0	53.6	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	95	281798	50.0	51.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 NewWkMix_00202

Amount Added: 10.00

Units: uL

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\\StLouis\\ChromData\\VMSX\\20170119-9590.b\\XLCS5233.D

Injection Date: 19-Jan-2017 15:26:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: LCS

Worklist Smp#: 4

Client ID:

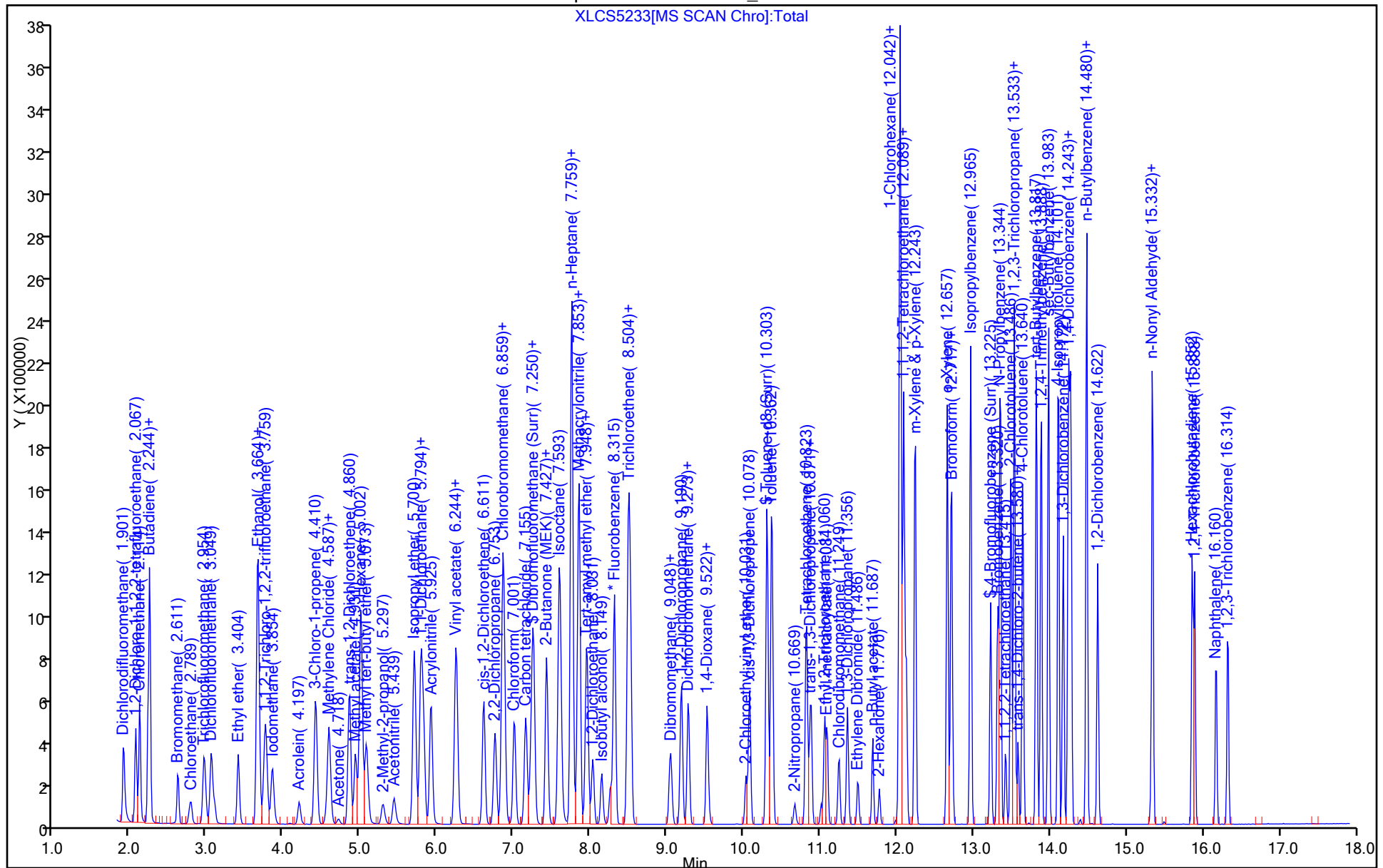
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XLCS5233.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 19-Jan-2017 15:26:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009590-004
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 23-Jan-2017 14:22:18 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D
Column 1 : Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: hannj

Date: 23-Jan-2017 14:22:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	52.1	104.29
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	53.9	107.80
\$ 62 Toluene-d8 (Surr)	50.0	50.7	101.31
\$ 86 4-Bromofluorobenzene (Surr)	50.0	47.8	95.50

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 160-287920/5

Matrix: Water Lab File ID: XLCS5171.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 01/16/2017 18:44

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	50.2		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	51.1		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	44.2		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	47.2		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	48.0		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	49.8		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	49.4		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	51.8		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	46.4		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	48.7		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	46.3		10	2.0	1.2
106-93-4	1,2-Dibromoethane	46.6		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	48.6		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	48.0		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	49.0		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	46.8		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	46.5		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	47.1		20	5.0	0.39
95-49-8	2-Chlorotoluene	48.4		5.0	2.0	0.34
591-78-6	2-Hexanone	44.1		20	2.0	0.59
106-43-4	4-Chlorotoluene	47.9		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	44.6		20	2.0	0.33
67-64-1	Acetone	50.1		20	10	6.7
71-43-2	Benzene	46.1		5.0	1.0	0.25
108-86-1	Bromobenzene	48.4		5.0	2.0	0.33
74-97-5	Bromochloromethane	50.7		5.0	2.0	0.55
75-27-4	Bromodichloromethane	51.4		5.0	2.0	0.25
75-25-2	Bromoform	53.0		5.0	1.0	0.37
74-83-9	Bromomethane	54.6		10	2.0	0.40
75-15-0	Carbon disulfide	49.3		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	53.6		5.0	1.0	0.36
108-90-7	Chlorobenzene	49.8		5.0	1.0	0.38
75-00-3	Chloroethane	47.5		10	1.0	0.38
67-66-3	Chloroform	49.1		5.0	1.0	0.15
74-87-3	Chloromethane	48.9		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	48.5		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 160-287920/5

Matrix: Water Lab File ID: XLCS5171.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 01/16/2017 18:44

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	50.6		5.0	1.0	0.34
124-48-1	Dibromochloromethane	51.1		5.0	1.0	0.33
74-95-3	Dibromomethane	50.1		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	55.5		10	2.0	0.45
100-41-4	Ethylbenzene	47.6		5.0	1.0	0.30
98-82-8	Isopropylbenzene	48.9		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	48.1		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	44.2		5.0	2.0	0.40
75-09-2	Methylene Chloride	48.5		7.5	5.0	1.7
91-20-3	Naphthalene	48.9		5.0	2.0	0.85
104-51-8	n-Butylbenzene	51.7		5.0	2.0	0.23
103-65-1	N-Propylbenzene	49.8		5.0	2.0	0.30
95-47-6	o-Xylene	49.2		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	50.9		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	50.2		5.0	2.0	0.31
100-42-5	Styrene	48.1		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	49.5		5.0	2.0	0.31
127-18-4	Tetrachloroethene	50.5		5.0	1.0	0.28
108-88-3	Toluene	46.4		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	48.7		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	48.7		5.0	1.0	0.35
79-01-6	Trichloroethene	50.6		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	55.7		5.0	2.0	0.22
75-01-4	Vinyl chloride	51.7		5.0	1.0	0.43
1330-20-7	Xylenes (total)	97.3		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		81-118
460-00-4	4-Bromofluorobenzene (Surr)	95		85-114
1868-53-7	Dibromofluoromethane (Surr)	105		80-119
2037-26-5	Toluene-d8 (Surr)	102		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\MSX\20170116-9564.b\XLCS5171.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 16-Jan-2017 18:44:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-005
 Misc. Info.: LCSD
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\MSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\MSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:10:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.913	1.913	0.000	99	488360	50.0	55.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.067	2.067	0.000	99	226733	50.0	50.2	
3 Chloromethane	50	2.126	2.126	0.000	99	582163	50.0	48.9	
4 Vinyl chloride	62	2.233	2.233	0.000	98	477239	50.0	51.7	
121 Butadiene	39	2.256	2.256	0.000	87	431099	50.0	51.2	
5 Bromomethane	94	2.623	2.623	0.000	92	155627	50.0	54.6	
6 Chloroethane	64	2.789	2.789	0.000	99	150558	50.0	47.5	
7 Trichlorofluoromethane	101	2.966	2.966	0.000	99	432208	50.0	55.7	
122 Dichlorofluoromethane	67	3.061	3.061	0.000	97	461878	50.0	52.5	
8 Ethyl ether	74	3.404	3.404	0.000	96	156331	50.0	47.3	
11 Ethanol	45	3.664	3.653	0.011	30	79590	2000.0	2064.9	
9 1,1-Dichloroethene	96	3.664	3.664	0.000	92	372015	50.0	49.8	
10 Carbon disulfide	76	3.664	3.664	0.000	100	1273007	50.0	49.3	
12 1,1,2-Trichloro-1,2,2-trif	151	3.771	3.771	0.000	95	290967	50.0	51.0	
13 Iodomethane	142	3.854	3.854	0.000	99	500488	50.0	49.9	
14 Acrolein	56	4.209	4.197	0.012	100	122771	250.0	176.8	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	91	463328	50.0	50.7	
16 Isopropyl alcohol	45	4.564	4.564	0.000	98	95722	500.0	477.5	
17 Methylene Chloride	84	4.599	4.587	0.012	99	315413	50.0	48.5	
18 Acetone	43	4.717	4.706	0.011	99	46061	50.0	50.1	
19 trans-1,2-Dichloroethene	96	4.859	4.860	-0.001	95	379252	50.0	48.7	
20 Methyl acetate	74	4.942	4.942	0.000	99	117303	250.0	235.1	
21 Hexane	86	5.013	5.013	0.000	86	133519	50.0	48.5	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	94	575616	50.0	44.2	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	98	148093	500.0	447.2	
24 Acetonitrile	41	5.451	5.439	0.012	99	199460	500.0	475.4	
25 Isopropyl ether	45	5.711	5.700	0.011	96	1172126	50.0	47.8	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	93	744622	50.0	49.2	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	96	696028	50.0	48.0	
29 Acrylonitrile	53	5.924	5.925	0.000	99	627104	500.0	470.3	
30 Tert-butyl ethyl ether	59	6.244	6.244	0.000	98	921515	50.0	46.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Vinyl acetate	43	6.268	6.256	0.012	97	553860	50.0	48.1	
32 cis-1,2-Dichloroethene	96	6.611	6.611	0.000	82	371343	50.0	48.5	
33 2,2-Dichloropropane	77	6.765	6.753	0.012	92	415572	50.0	46.5	
34 Cyclohexane	84	6.859	6.859	0.000	93	642352	50.0	48.5	
35 Chlorobromomethane	128	6.883	6.883	0.000	92	123133	50.0	50.7	
36 Chloroform	83	7.013	7.013	0.000	94	576034	50.0	49.1	
37 Carbon tetrachloride	117	7.167	7.155	0.012	97	514350	50.0	53.6	
38 Tetrahydrofuran	71	7.226	7.214	0.012	93	32468	100.0	95.8	
39 Ethyl acetate	45	7.238	7.226	0.012	98	48683	100.0	98.1	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.250	0.012	91	263690	50.0	52.6	
40 1,1,1-Trichloroethane	97	7.262	7.262	0.000	98	567840	50.0	51.1	
42 1,1-Dichloropropene	75	7.427	7.427	0.000	95	539515	50.0	49.4	
43 2-Butanone (MEK)	43	7.463	7.451	0.012	99	73772	50.0	47.1	
124 Isooctane	57	7.605	7.593	0.012	96	1989189	50.0	48.4	
117 n-Heptane	43	7.759	7.759	0.000	96	828439	50.0	49.2	
44 Benzene	78	7.759	7.759	0.000	98	1389462	50.0	46.1	
45 Propionitrile	54	7.830	7.830	0.000	94	222551	500.0	478.9	
46 Methacrylonitrile	41	7.853	7.853	0.000	94	1040712	500.0	484.5	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	88	270455	50.0	51.0	
48 Tert-amyl methyl ether	73	7.960	7.960	0.000	95	620853	50.0	45.6	
49 1,2-Dichloroethane	62	8.031	8.031	0.000	97	337651	50.0	48.6	
50 Isobutyl alcohol	42	8.149	8.149	0.000	95	101942	1250.0	1159.5	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1284177	50.0	50.0	
52 Methylcyclohexane	55	8.504	8.492	0.012	95	722526	50.0	49.7	
53 Trichloroethene	95	8.528	8.528	0.000	98	363585	50.0	50.6	
54 n-Butanol	56	9.036	9.037	-0.001	88	107061	1250.0	1096.7	
55 Dibromomethane	93	9.060	9.048	0.012	96	127318	50.0	50.1	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	95	353725	50.0	48.0	
123 Ethyl acrylate	55	9.273	9.273	0.000	98	236546	50.0	45.1	
57 Dichlorobromomethane	83	9.285	9.285	0.000	99	372487	50.0	51.4	
58 Methyl methacrylate	69	9.522	9.522	0.000	95	236381	100.0	93.2	
59 1,4-Dioxane	88	9.557	9.545	0.012	85	32665	1000.0	1106.6	M
60 2-Chloroethyl vinyl ether	63	10.030	10.031	-0.001	91	114481	50.0	41.1	
61 cis-1,3-Dichloropropene	75	10.078	10.078	0.000	94	484647	50.0	50.6	
\$ 62 Toluene-d8 (Surr)	98	10.314	10.303	0.011	94	1294286	50.0	50.8	
63 Toluene	92	10.374	10.374	0.000	98	877561	50.0	46.4	
64 2-Nitropropane	43	10.669	10.670	-0.001	99	68915	100.0	79.0	
65 Tetrachloroethene	164	10.823	10.823	0.000	96	305797	50.0	50.5	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	96	157582	50.0	44.6	
67 trans-1,3-Dichloropropene	75	10.882	10.882	0.000	95	370175	50.0	48.7	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	91	160094	50.0	47.2	
69 Ethyl methacrylate	69	11.095	11.095	0.000	86	235946	50.0	43.9	M
70 Chlorodibromomethane	129	11.249	11.249	0.000	91	215953	50.0	51.1	
71 1,3-Dichloropropane	76	11.356	11.356	0.000	94	355963	50.0	46.8	
72 Ethylene Dibromide	107	11.498	11.498	0.000	99	168904	50.0	46.6	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	284900	50.0	43.0	
74 2-Hexanone	43	11.770	11.770	0.000	95	107801	50.0	44.1	
* 76 Chlorobenzene-d5	117	12.030	12.030	0.000	91	833477	50.0	50.0	
75 1-Chlorohexane	91	12.042	12.042	0.000	90	601148	50.0	54.4	
77 Chlorobenzene	112	12.054	12.054	0.000	97	830038	50.0	49.8	
78 Ethylbenzene	91	12.089	12.089	0.000	96	1696093	50.0	47.6	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	93	264263	50.0	50.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	644932	50.0	48.1	
82 o-Xylene	106	12.657	12.657	0.000	98	605710	50.0	49.2	
83 Styrene	104	12.717	12.717	0.000	95	879079	50.0	48.1	
84 Bromoform	173	12.728	12.728	0.000	96	98680	50.0	53.0	
85 Isopropylbenzene	105	12.965	12.965	0.000	96	1675520	50.0	48.9	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	85	407766	50.0	47.3	
87 Bromobenzene	156	13.320	13.320	0.000	97	307316	50.0	48.4	
88 N-Propylbenzene	91	13.355	13.356	-0.001	98	1918865	50.0	49.8	
89 1,1,2,2-Tetrachloroethane	83	13.415	13.415	0.000	96	177252	50.0	44.2	
90 2-Chlorotoluene	91	13.486	13.486	0.000	96	1097006	50.0	48.4	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	94	1287840	50.0	49.0	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	86	53863	50.0	46.4	
93 trans-1,4-Dichloro-2-buten	53	13.580	13.580	0.000	88	63258	50.0	47.6	
94 Cyclohexanone	55	13.580	13.580	0.000	75	53467	500.0	470.5	
95 4-Chlorotoluene	91	13.639	13.640	-0.001	99	1071911	50.0	47.9	
96 tert-Butylbenzene	119	13.817	13.817	0.000	93	1152980	50.0	49.5	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	1252636	50.0	48.7	
98 sec-Butylbenzene	105	13.983	13.983	0.000	95	1772378	50.0	50.2	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	1435230	50.0	50.9	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	98	603598	50.0	48.5	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	94	352266	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	96	576858	50.0	49.8	
119 1,2,3-Trimethylbenzene	105	14.278	14.267	0.011	99	1160418	50.0	49.6	
120 Benzyl chloride	126	14.480	14.480	0.000	90	71679	50.0	51.1	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	364430	50.0	51.7	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	96	515300	50.0	48.7	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	85	27650	50.0	46.3	
106 n-Nonyl Aldehyde	57	15.332	15.332	0.000	62	153775	50.0	48.2	
107 1,3,5-Trichlorobenzene	180	15.343	15.344	-0.001	97	468702	50.0	53.1	
108 Hexachlorobutadiene	225	15.864	15.852	0.012	97	255918	50.0	56.8	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	94	371037	50.0	51.2	
110 Naphthalene	128	16.172	16.172	0.000	97	604313	50.0	48.9	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	95	302479	50.0	51.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 NewWkMix_00202

Amount Added: 10.00

Units: uL

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\\StLouis\\ChromData\\VMSX\\20170116-9564.b\\XLCS5171.D

Injection Date: 16-Jan-2017 18:44:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: LCSD

Worklist Smp#: 5

Client ID:

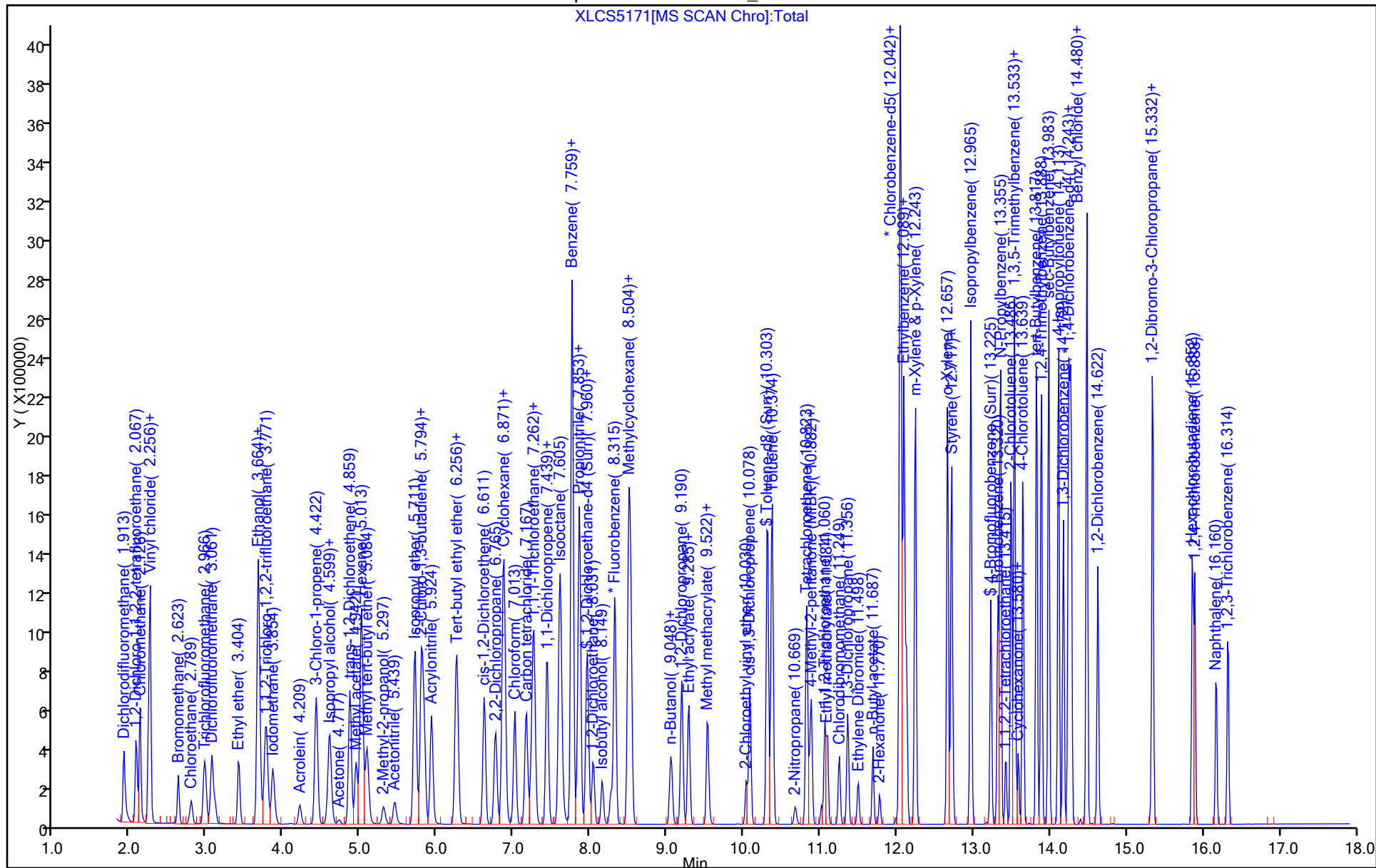
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XLCS5171.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 16-Jan-2017 18:44:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009564-005
Misc. Info.: LCSD
Operator ID: JDH Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:10:57

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	52.6	105.12
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.0	101.91
\$ 62 Toluene-d8 (Surr)	50.0	50.8	101.63
\$ 86 4-Bromofluorobenzene (Surr)	50.0	47.3	94.56

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 160-288297/5

Matrix: Water Lab File ID: XLCS5234.D

Analysis Method: 8260C DOD Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 01/19/2017 15:51

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 288297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	50.7		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	51.0		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	50.2		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	51.1		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	49.4		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	49.8		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	50.2		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	53.5		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	52.7		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	49.8		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	53.1		10	2.0	1.2
106-93-4	1,2-Dibromoethane	51.2		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	51.5		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	50.5		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	49.4		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	50.9		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	47.7		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	58.0		20	5.0	0.39
95-49-8	2-Chlorotoluene	49.1		5.0	2.0	0.34
591-78-6	2-Hexanone	56.7		20	2.0	0.59
106-43-4	4-Chlorotoluene	48.7		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	55.3		20	2.0	0.33
67-64-1	Acetone	62.2		20	10	6.7
71-43-2	Benzene	46.9		5.0	1.0	0.25
108-86-1	Bromobenzene	49.3		5.0	2.0	0.33
74-97-5	Bromochloromethane	51.3		5.0	2.0	0.55
75-27-4	Bromodichloromethane	52.2		5.0	2.0	0.25
75-25-2	Bromoform	57.2		5.0	1.0	0.37
74-83-9	Bromomethane	58.9		10	2.0	0.40
75-15-0	Carbon disulfide	50.1		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	52.4		5.0	1.0	0.36
108-90-7	Chlorobenzene	50.1		5.0	1.0	0.38
75-00-3	Chloroethane	52.4		10	1.0	0.38
67-66-3	Chloroform	49.6		5.0	1.0	0.15
74-87-3	Chloromethane	51.8		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	49.0		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 160-288297/5
 Matrix: Water Lab File ID: XLCS5234.D
 Analysis Method: 8260C DOD Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 01/19/2017 15:51
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 288297 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	51.7		5.0	1.0	0.34
124-48-1	Dibromochloromethane	53.6		5.0	1.0	0.33
74-95-3	Dibromomethane	53.8		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	56.1		10	2.0	0.45
100-41-4	Ethylbenzene	47.8		5.0	1.0	0.30
98-82-8	Isopropylbenzene	49.4		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	48.8		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	48.5		5.0	2.0	0.40
75-09-2	Methylene Chloride	49.3		7.5	5.0	1.7
91-20-3	Naphthalene	54.4		5.0	2.0	0.85
104-51-8	n-Butylbenzene	50.9		5.0	2.0	0.23
103-65-1	N-Propylbenzene	49.9		5.0	2.0	0.30
95-47-6	o-Xylene	49.6		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	50.6		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	50.9		5.0	2.0	0.31
100-42-5	Styrene	49.2		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	49.5		5.0	2.0	0.31
127-18-4	Tetrachloroethene	50.6		5.0	1.0	0.28
108-88-3	Toluene	47.6		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	49.2		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	51.7		5.0	1.0	0.35
79-01-6	Trichloroethene	50.7		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	56.8		5.0	2.0	0.22
75-01-4	Vinyl chloride	54.0		5.0	1.0	0.43
1330-20-7	Xylenes (total)	98.4		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		81-118
460-00-4	4-Bromofluorobenzene (Surr)	97		85-114
1868-53-7	Dibromofluoromethane (Surr)	105		80-119
2037-26-5	Toluene-d8 (Surr)	104		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XLCS5234.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 19-Jan-2017 15:51:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009590-005
 Misc. Info.: LCSD
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 23-Jan-2017 14:21:53 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: hannj Date: 23-Jan-2017 14:21:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.913	1.913	0.000	99	481846	50.0	56.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.067	2.079	-0.012	99	219181	50.0	49.8	
3 Chloromethane	50	2.126	2.126	0.000	99	601891	50.0	51.8	
4 Vinyl chloride	62	2.232	2.233	-0.001	98	486261	50.0	54.0	
121 Butadiene	39	2.256	2.256	0.000	86	435765	50.0	53.1	
5 Bromomethane	94	2.623	2.623	0.000	92	163666	50.0	58.9	
6 Chloroethane	64	2.789	2.789	0.000	99	161957	50.0	52.4	
7 Trichlorofluoromethane	101	2.966	2.966	0.000	99	429768	50.0	56.8	
122 Dichlorofluoromethane	67	3.061	3.061	0.000	97	474819	50.0	55.4	
8 Ethyl ether	74	3.416	3.416	0.000	95	167515	50.0	52.0	
11 Ethanol	45	3.664	3.664	0.000	31	90516	2000.0	2407.3	
9 1,1-Dichloroethene	96	3.664	3.664	0.000	92	363312	50.0	49.8	
10 Carbon disulfide	76	3.664	3.676	-0.012	100	1263142	50.0	50.1	
12 1,1,2-Trichloro-1,2,2-trif	151	3.771	3.771	0.000	95	276983	50.0	49.8	
13 Iodomethane	142	3.854	3.854	0.000	100	484017	50.0	49.4	
14 Acrolein	56	4.209	4.209	0.000	99	143795	250.0	212.3	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	92	449573	50.0	50.5	
16 Isopropyl alcohol	45	4.564	4.564	0.000	99	116210	500.0	594.2	
17 Methylene Chloride	84	4.599	4.599	0.000	99	312997	50.0	49.3	
18 Acetone	43	4.717	4.718	-0.001	100	55167	50.0	62.2	
19 trans-1,2-Dichloroethene	96	4.859	4.860	-0.001	94	373871	50.0	49.2	
20 Methyl acetate	74	4.942	4.942	0.000	99	135717	250.0	278.8	
21 Hexane	86	5.013	5.013	0.000	85	133185	50.0	49.6	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	94	616142	50.0	48.5	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	98	184917	500.0	572.4	
24 Acetonitrile	41	5.439	5.451	-0.012	99	228753	500.0	558.9	
25 Isopropyl ether	45	5.711	5.712	-0.001	96	1208498	50.0	50.5	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	93	752770	50.0	51.0	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	96	700049	50.0	49.4	
29 Acrylonitrile	53	5.924	5.925	-0.001	99	714289	500.0	549.1	
30 Tert-butyl ethyl ether	59	6.244	6.256	-0.012	99	974158	50.0	49.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Vinyl acetate	43	6.267	6.268	-0.001	97	595362	50.0	53.0	
32 cis-1,2-Dichloroethene	96	6.611	6.623	-0.012	84	366029	50.0	49.0	
33 2,2-Dichloropropane	77	6.764	6.765	-0.001	92	415897	50.0	47.7	
34 Cyclohexane	84	6.859	6.871	-0.012	92	633495	50.0	49.1	
35 Chlorobromomethane	128	6.883	6.883	0.000	93	121584	50.0	51.3	
36 Chloroform	83	7.013	7.013	0.000	95	567840	50.0	49.6	
37 Carbon tetrachloride	117	7.167	7.167	0.000	98	491272	50.0	52.4	
38 Tetrahydrofuran	71	7.226	7.226	0.000	93	37117	100.0	112.3	
39 Ethyl acetate	45	7.238	7.238	0.000	99	57412	100.0	118.6	
\$ 41 Dibromofluoromethane (Surr	113	7.261	7.262	-0.001	92	257772	50.0	52.7	
40 1,1,1-Trichloroethane	97	7.261	7.262	-0.001	97	552775	50.0	51.0	
42 1,1-Dichloropropene	75	7.427	7.439	-0.012	95	534201	50.0	50.2	
43 2-Butanone (MEK)	43	7.451	7.463	-0.012	99	88717	50.0	58.0	
124 Isooctane	57	7.605	7.605	0.000	95	2006875	50.0	50.1	
117 n-Heptane	43	7.758	7.759	-0.001	94	829908	50.0	50.5	
44 Benzene	78	7.758	7.759	-0.001	97	1378186	50.0	46.9	
45 Propionitrile	54	7.829	7.830	-0.001	95	261881	500.0	577.7	
46 Methacrylonitrile	41	7.853	7.853	0.000	93	1152079	500.0	549.8	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	89	278887	50.0	53.9	
48 Tert-amyl methyl ether	73	7.960	7.960	0.000	95	653287	50.0	49.2	
49 1,2-Dichloroethane	62	8.031	8.043	-0.012	97	349294	50.0	51.5	
50 Isobutyl alcohol	42	8.149	8.149	0.000	95	125957	1250.0	1468.6	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1252712	50.0	50.0	
52 Methylcyclohexane	55	8.504	8.504	0.000	95	726960	50.0	51.2	
53 Trichloroethene	95	8.528	8.528	0.000	97	355256	50.0	50.7	
54 n-Butanol	56	9.036	9.037	-0.001	86	131701	1250.0	1360.0	
55 Dibromomethane	93	9.060	9.060	0.000	95	133176	50.0	53.8	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	96	362783	50.0	50.5	
123 Ethyl acrylate	55	9.273	9.285	-0.012	98	279905	50.0	54.7	
57 Dichlorobromomethane	83	9.285	9.285	0.000	99	368697	50.0	52.2	
58 Methyl methacrylate	69	9.522	9.534	-0.012	95	269420	100.0	108.9	
59 1,4-Dioxane	88	9.557	9.557	0.000	87	35060	1000.0	1213.9	M
60 2-Chloroethyl vinyl ether	63	10.030	10.031	-0.001	91	131647	50.0	48.4	
61 cis-1,3-Dichloropropene	75	10.078	10.078	0.000	94	482455	50.0	51.7	
\$ 62 Toluene-d8 (Surr)	98	10.314	10.315	-0.001	94	1271853	50.0	51.9	
63 Toluene	92	10.373	10.374	-0.001	98	866187	50.0	47.6	
64 2-Nitropropane	43	10.669	10.670	-0.001	98	84642	100.0	98.0	
65 Tetrachloroethene	164	10.823	10.823	0.000	95	295239	50.0	50.6	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	95	188115	50.0	55.3	
67 trans-1,3-Dichloropropene	75	10.882	10.883	-0.001	95	378103	50.0	51.7	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	91	166851	50.0	51.1	
69 Ethyl methacrylate	69	11.095	11.096	-0.001	85	259093	50.0	50.0	
70 Chlorodibromomethane	129	11.249	11.249	0.000	90	218363	50.0	53.6	
71 1,3-Dichloropropane	76	11.356	11.356	0.000	94	372823	50.0	50.9	
72 Ethylene Dibromide	107	11.498	11.498	0.000	98	178693	50.0	51.2	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	328894	50.0	51.6	
74 2-Hexanone	43	11.770	11.770	0.000	97	133452	50.0	56.7	
* 76 Chlorobenzene-d5	117	12.030	12.042	-0.012	90	802565	50.0	50.0	
75 1-Chlorohexane	91	12.042	12.042	0.000	90	594532	50.0	55.9	
77 Chlorobenzene	112	12.054	12.054	0.000	96	803918	50.0	50.1	
78 Ethylbenzene	91	12.089	12.090	-0.001	96	1640537	50.0	47.8	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	94	257022	50.0	50.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	629850	50.0	48.8	
82 o-Xylene	106	12.657	12.657	0.000	98	588459	50.0	49.6	
83 Styrene	104	12.716	12.717	-0.001	95	867080	50.0	49.2	
84 Bromoform	173	12.728	12.728	0.000	97	103581	50.0	57.2	
85 Isopropylbenzene	105	12.965	12.965	0.000	96	1645623	50.0	49.4	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	85	406917	50.0	48.5	
87 Bromobenzene	156	13.320	13.320	0.000	96	304971	50.0	49.3	
88 N-Propylbenzene	91	13.355	13.356	-0.001	98	1871733	50.0	49.9	
89 1,1,2,2-Tetrachloroethane	83	13.415	13.427	-0.012	96	195849	50.0	50.2	
90 2-Chlorotoluene	91	13.486	13.486	0.000	96	1083399	50.0	49.1	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	94	1263246	50.0	49.4	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	87	59527	50.0	52.7	
93 trans-1,4-Dichloro-2-buten	53	13.580	13.580	0.000	89	72252	50.0	55.9	
94 Cyclohexanone	55	13.580	13.580	0.000	77	63418	500.0	573.7	
95 4-Chlorotoluene	91	13.639	13.640	-0.001	99	1060216	50.0	48.7	
96 tert-Butylbenzene	119	13.817	13.817	0.000	94	1121086	50.0	49.5	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	1247366	50.0	49.8	
98 sec-Butylbenzene	105	13.983	13.983	0.000	95	1747249	50.0	50.9	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	1386727	50.0	50.6	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	97	590983	50.0	48.8	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	97	342663	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	96	563783	50.0	50.0	
119 1,2,3-Trimethylbenzene	105	14.267	14.279	-0.012	99	1139652	50.0	50.1	
120 Benzyl chloride	126	14.480	14.480	0.000	90	75589	50.0	55.4	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	348775	50.0	50.9	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	96	508538	50.0	49.4	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	85	30850	50.0	53.1	
106 n-Nonyl Aldehyde	57	15.331	15.332	-0.001	63	160197	50.0	51.4	
107 1,3,5-Trichlorobenzene	180	15.343	15.344	-0.001	97	452217	50.0	52.6	
108 Hexachlorobutadiene	225	15.852	15.864	-0.012	96	242185	50.0	55.3	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	94	364695	50.0	51.8	
110 Naphthalene	128	16.172	16.172	0.000	97	654739	50.0	54.4	
111 1,2,3-Trichlorobenzene	180	16.325	16.326	-0.001	95	303850	50.0	53.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 NewWkMix_00202

Amount Added: 10.00

Units: uL

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\MSX\20170119-9590.b\XLCS5234.D

Injection Date: 19-Jan-2017 15:51:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: LCSD

Worklist Smp#: 5

Client ID:

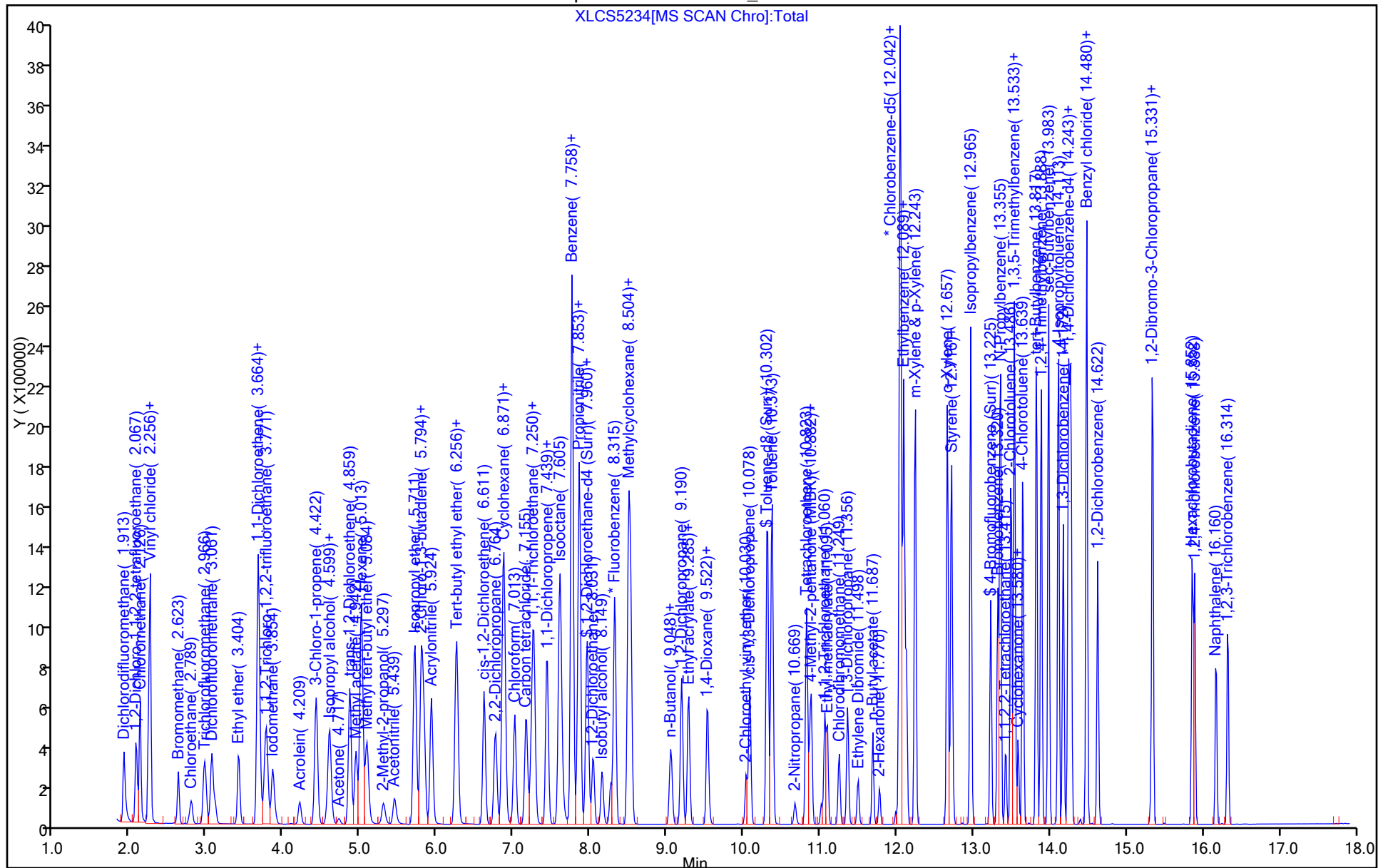
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\XLCS5234.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 19-Jan-2017 15:51:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009590-005
Misc. Info.: LCSD
Operator ID: JDH Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20170119-9590.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 23-Jan-2017 14:21:53 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: hannj Date: 23-Jan-2017 14:21:53

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	52.7	105.35
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	53.9	107.73
\$ 62 Toluene-d8 (Surr)	50.0	51.9	103.71
\$ 86 4-Bromofluorobenzene (Surr)	50.0	48.5	97.01

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: 6MW2003MS MS Lab Sample ID: 280-92896-6 MS

Matrix: Water Lab File ID: XSMP5176.D

Analysis Method: 8260C DOD Date Collected: 01/09/2017 15:00

Sample wt/vol: 5(mL) Date Analyzed: 01/16/2017 20:49

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	50.3		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	51.2		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	43.9		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	47.3		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	48.6		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	49.6		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	49.3		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	49.1		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	45.6		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	47.1		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	43.9		10	2.0	1.2
106-93-4	1,2-Dibromoethane	47.6		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	50.0		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	48.8		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	47.3		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	46.9		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	47.6		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	48.1		20	5.0	0.39
95-49-8	2-Chlorotoluene	47.1		5.0	2.0	0.34
591-78-6	2-Hexanone	43.5		20	2.0	0.59
106-43-4	4-Chlorotoluene	46.6		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	44.1		20	2.0	0.33
67-64-1	Acetone	55.4		20	10	6.7
71-43-2	Benzene	46.7		5.0	1.0	0.25
108-86-1	Bromobenzene	48.2		5.0	2.0	0.33
74-97-5	Bromochloromethane	52.2		5.0	2.0	0.55
75-27-4	Bromodichloromethane	52.5		5.0	2.0	0.25
75-25-2	Bromoform	50.5		5.0	1.0	0.37
74-83-9	Bromomethane	53.8		10	2.0	0.40
75-15-0	Carbon disulfide	50.5		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	51.7		5.0	1.0	0.36
108-90-7	Chlorobenzene	49.7		5.0	1.0	0.38
75-00-3	Chloroethane	47.3		10	1.0	0.38
67-66-3	Chloroform	49.8		5.0	1.0	0.15
74-87-3	Chloromethane	41.8		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	52.6		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: 6MW2003MS MS Lab Sample ID: 280-92896-6 MS

Matrix: Water Lab File ID: XSMP5176.D

Analysis Method: 8260C DOD Date Collected: 01/09/2017 15:00

Sample wt/vol: 5 (mL) Date Analyzed: 01/16/2017 20:49

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	50.8		5.0	1.0	0.34
124-48-1	Dibromochloromethane	50.7		5.0	1.0	0.33
74-95-3	Dibromomethane	50.6		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	54.4		10	2.0	0.45
100-41-4	Ethylbenzene	47.2		5.0	1.0	0.30
98-82-8	Isopropylbenzene	47.4		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	47.3		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	45.5		5.0	2.0	0.40
75-09-2	Methylene Chloride	49.7		7.5	5.0	1.7
91-20-3	Naphthalene	46.5		5.0	2.0	0.85
104-51-8	n-Butylbenzene	50.3		5.0	2.0	0.23
103-65-1	N-Propylbenzene	47.9		5.0	2.0	0.30
95-47-6	o-Xylene	48.2		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	48.8		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	48.2		5.0	2.0	0.31
100-42-5	Styrene	47.9		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	48.0		5.0	2.0	0.31
127-18-4	Tetrachloroethene	49.5		5.0	1.0	0.28
108-88-3	Toluene	46.3		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	49.8		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	48.6		5.0	1.0	0.35
79-01-6	Trichloroethene	50.9		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	55.3		5.0	2.0	0.22
75-01-4	Vinyl chloride	50.7		5.0	1.0	0.43
1330-20-7	Xylenes (total)	95.5		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		81-118
460-00-4	4-Bromofluorobenzene (Surr)	91		85-114
1868-53-7	Dibromofluoromethane (Surr)	105		80-119
2037-26-5	Toluene-d8 (Surr)	98		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5176.D
 Lims ID: 280-92896-A-6 MS
 Client ID: 6MW2003MS
 Sample Type: MS
 Inject. Date: 16-Jan-2017 20:49:30 ALS Bottle#: 9 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-010
 Misc. Info.: 280-92896-A-6 MS
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess Date: 24-Jan-2017 15:15:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.913	1.913	0.000	99	456738	50.0	54.4	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.079	2.067	0.012	99	213945	50.0	49.7	
3 Chloromethane	50	2.126	2.126	0.000	99	475568	50.0	41.8	
4 Vinyl chloride	62	2.233	2.233	-0.001	98	445936	50.0	50.7	
121 Butadiene	39	2.256	2.256	0.000	88	408906	50.0	50.9	
5 Bromomethane	94	2.623	2.623	0.000	92	146256	50.0	53.8	
6 Chloroethane	64	2.789	2.789	0.000	98	143124	50.0	47.3	
7 Trichlorofluoromethane	101	2.966	2.966	0.000	99	409254	50.0	55.3	
122 Dichlorofluoromethane	67	3.061	3.061	0.000	97	450731	50.0	53.7	
8 Ethyl ether	74	3.416	3.404	0.012	95	153379	50.0	48.7	
11 Ethanol	45	3.664	3.653	0.011	30	71202	2000.0	1936.3	
9 1,1-Dichloroethene	96	3.664	3.664	0.000	92	353574	50.0	49.6	
10 Carbon disulfide	76	3.676	3.664	0.012	100	1243612	50.0	50.5	
12 1,1,2-Trichloro-1,2,2-trif	151	3.771	3.771	0.000	94	280682	50.0	51.6	
13 Iodomethane	142	3.854	3.854	0.000	99	490085	50.0	51.2	
14 Acrolein	56	4.209	4.197	0.012	100	118885	250.0	179.5	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	91	448812	50.0	51.5	
16 Isopropyl alcohol	45	4.564	4.564	0.000	98	108265	500.0	566.1	
17 Methylene Chloride	84	4.599	4.587	0.012	99	308287	50.0	49.7	
18 Acetone	43	4.717	4.706	0.011	99	48286	50.0	55.4	
19 trans-1,2-Dichloroethene	96	4.859	4.860	-0.001	95	369836	50.0	49.8	
20 Methyl acetate	74	4.942	4.942	0.000	99	114616	250.0	240.8	
21 Hexane	86	5.013	5.013	0.000	88	125354	50.0	47.8	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	96	564644	50.0	45.5	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	97	136914	500.0	433.4	
24 Acetonitrile	41	5.451	5.439	0.012	100	191177	500.0	477.7	
25 Isopropyl ether	45	5.711	5.700	0.011	95	1109798	50.0	47.4	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	93	700444	50.0	48.6	
S 26 1,2-Dichloroethene, Total	96				0			102.5	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	98	673130	50.0	48.6	
29 Acrylonitrile	53	5.924	5.925	0.000	99	587737	500.0	462.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	6.256	6.244	0.012	98	883140	50.0	46.2	
31 Vinyl acetate	43	6.268	6.256	0.012	97	540688	50.0	49.2	
32 cis-1,2-Dichloroethene	96	6.623	6.611	0.012	86	384870	50.0	52.6	
33 2,2-Dichloropropane	77	6.765	6.753	0.012	92	405534	50.0	47.6	
34 Cyclohexane	84	6.871	6.859	0.012	92	604212	50.0	47.8	
35 Chlorobromomethane	128	6.883	6.883	0.000	95	120903	50.0	52.2	
36 Chloroform	83	7.013	7.013	0.000	95	557275	50.0	49.8	
37 Carbon tetrachloride	117	7.167	7.155	0.012	98	473897	50.0	51.7	
38 Tetrahydrofuran	71	7.226	7.214	0.012	92	30600	100.0	94.6	
39 Ethyl acetate	45	7.238	7.226	0.012	97	45960	100.0	97.0	
\$ 41 Dibromofluoromethane (Surr	113	7.262	7.250	0.012	89	251447	50.0	52.5	
40 1,1,1-Trichloroethane	97	7.262	7.262	0.000	99	542955	50.0	51.2	
42 1,1-Dichloropropene	75	7.439	7.427	0.012	95	513733	50.0	49.3	
43 2-Butanone (MEK)	43	7.463	7.451	0.012	99	71886	50.0	48.1	
124 Isooctane	57	7.605	7.593	0.012	96	1862243	50.0	47.5	
117 n-Heptane	43	7.758	7.759	-0.001	97	795009	50.0	49.5	
44 Benzene	78	7.770	7.759	0.011	98	1343816	50.0	46.7	
45 Propionitrile	54	7.829	7.830	-0.001	93	215641	500.0	486.5	
46 Methacrylonitrile	41	7.853	7.853	0.000	94	1017397	500.0	496.5	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	88	260606	50.0	51.5	
48 Tert-amyl methyl ether	73	7.960	7.960	0.000	96	598818	50.0	46.1	
49 1,2-Dichloroethane	62	8.042	8.031	0.011	97	331390	50.0	50.0	
50 Isobutyl alcohol	42	8.161	8.149	0.012	94	95266	1250.0	1135.8	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1225092	50.0	50.0	
125 1,4-Difluorobenzene	114		8.427					ND	
52 Methylcyclohexane	55	8.504	8.492	0.012	94	669553	50.0	48.3	
53 Trichloroethene	95	8.528	8.528	0.000	97	349237	50.0	50.9	
A 126 C6-C12	1	8.945	(3.966-13.924)	0		120470885		NC	
54 n-Butanol	56	9.036	9.037	-0.001	88	94963	1250.0	1025.6	
55 Dibromomethane	93	9.060	9.048	0.012	97	122538	50.0	50.6	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	95	343166	50.0	48.8	
123 Ethyl acrylate	55	9.285	9.273	0.012	97	223381	50.0	44.7	
57 Dichlorobromomethane	83	9.285	9.285	0.000	99	362831	50.0	52.5	
58 Methyl methacrylate	69	9.533	9.522	0.011	94	222547	100.0	92.0	
59 1,4-Dioxane	88	9.557	9.545	0.012	88	29018	1000.0	1033.0	M
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63	10.030	10.031	-0.001	88	21485	50.0	8.08	
61 cis-1,3-Dichloropropene	75	10.078	10.078	0.000	94	464181	50.0	50.8	
\$ 62 Toluene-d8 (Surr)	98	10.314	10.303	0.011	93	1201671	50.0	48.8	
63 Toluene	92	10.374	10.374	0.000	98	847239	50.0	46.3	
64 2-Nitropropane	43	10.669	10.670	-0.001	99	62451	100.0	74.5	
65 Tetrachloroethene	164	10.823	10.823	0.000	95	289951	50.0	49.5	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	97	150707	50.0	44.1	
67 trans-1,3-Dichloropropene	75	10.882	10.882	0.000	96	357378	50.0	48.6	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	90	155177	50.0	47.3	
69 Ethyl methacrylate	69	11.095	11.095	0.000	85	223679	50.0	43.0	M
70 Chlorodibromomethane	129	11.249	11.249	0.000	90	207510	50.0	50.7	
71 1,3-Dichloropropane	76	11.356	11.356	0.000	96	345225	50.0	46.9	
72 Ethylene Dibromide	107	11.498	11.498	0.000	98	166822	50.0	47.6	
S 73 1,3-Dichloropropene, Total	75				0			99.5	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	265518	50.0	41.4	
74 2-Hexanone	43	11.770	11.770	0.000	96	102944	50.0	43.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	12.042	12.030	0.012	89	806579	50.0	50.0	
75 1-Chlorohexane	91	12.054	12.042	0.012	76	556249	50.0	52.0	
77 Chlorobenzene	112	12.054	12.054	0.000	96	801561	50.0	49.7	
78 Ethylbenzene	91	12.089	12.089	0.000	96	1628502	50.0	47.2	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	94	256514	50.0	50.3	
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	614335	50.0	47.3	
82 o-Xylene	106	12.657	12.657	0.000	98	574626	50.0	48.2	
83 Styrene	104	12.716	12.717	-0.001	95	848266	50.0	47.9	
84 Bromoform	173	12.728	12.728	0.000	96	92377	50.0	50.5	
85 Isopropylbenzene	105	12.965	12.965	0.000	96	1597599	50.0	47.4	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	85	387666	50.0	45.7	
87 Bromobenzene	156	13.320	13.320	0.000	97	301156	50.0	48.2	
88 N-Propylbenzene	91	13.355	13.356	-0.001	98	1817603	50.0	47.9	
89 1,1,2,2-Tetrachloroethane	83	13.426	13.415	0.011	96	173214	50.0	43.9	
90 2-Chlorotoluene	91	13.486	13.486	0.000	96	1051252	50.0	47.1	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	94	1222992	50.0	47.3	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	86	52078	50.0	45.6	
93 trans-1,4-Dichloro-2-buten	53	13.580	13.580	0.000	87	58488	50.0	44.7	
94 Cyclohexanone	55	13.580	13.580	0.000	71	44266	500.0	395.9	
95 4-Chlorotoluene	91	13.639	13.640	-0.001	99	1026264	50.0	46.6	
81 Pentachloroethane	167		13.776					ND	
96 tert-Butylbenzene	119	13.829	13.817	0.012	94	1099508	50.0	48.0	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	1193704	50.0	47.1	
98 sec-Butylbenzene	105	13.983	13.983	0.000	95	1673035	50.0	48.2	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	1353327	50.0	48.8	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	98	586517	50.0	47.9	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	96	346543	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	92	556108	50.0	48.8	
119 1,2,3-Trimethylbenzene	105	14.278	14.267	0.011	98	1101881	50.0	47.9	
120 Benzyl chloride	126	14.480	14.480	0.000	90	66864	50.0	48.5	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	348301	50.0	50.3	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	97	496644	50.0	47.7	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	86	25825	50.0	43.9	
106 n-Nonyl Aldehyde	57	15.332	15.332	0.000	62	151624	50.0	48.3	
107 1,3,5-Trichlorobenzene	180	15.343	15.344	-0.001	97	458524	50.0	52.8	
108 Hexachlorobutadiene	225	15.864	15.852	0.012	96	239313	50.0	54.0	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	94	357443	50.0	50.2	
110 Naphthalene	128	16.172	16.172	0.000	97	565459	50.0	46.5	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	95	282302	50.0	49.1	
S 112 Xylenes, Total	106				0			95.6	
S 113 Trihalomethanes, Total	1				0			203.5	
127 2-Methylpentane	43		4.061					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

8260 NewWkMix_00202

Amount Added: 10.00

Units: uL

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\MSX\20170116-9564.b\XSMP5176.D

Injection Date: 16-Jan-2017 20:49:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: 280-92896-A-6 MS

Worklist Smp#: 10

Client ID: 6MW2003MS

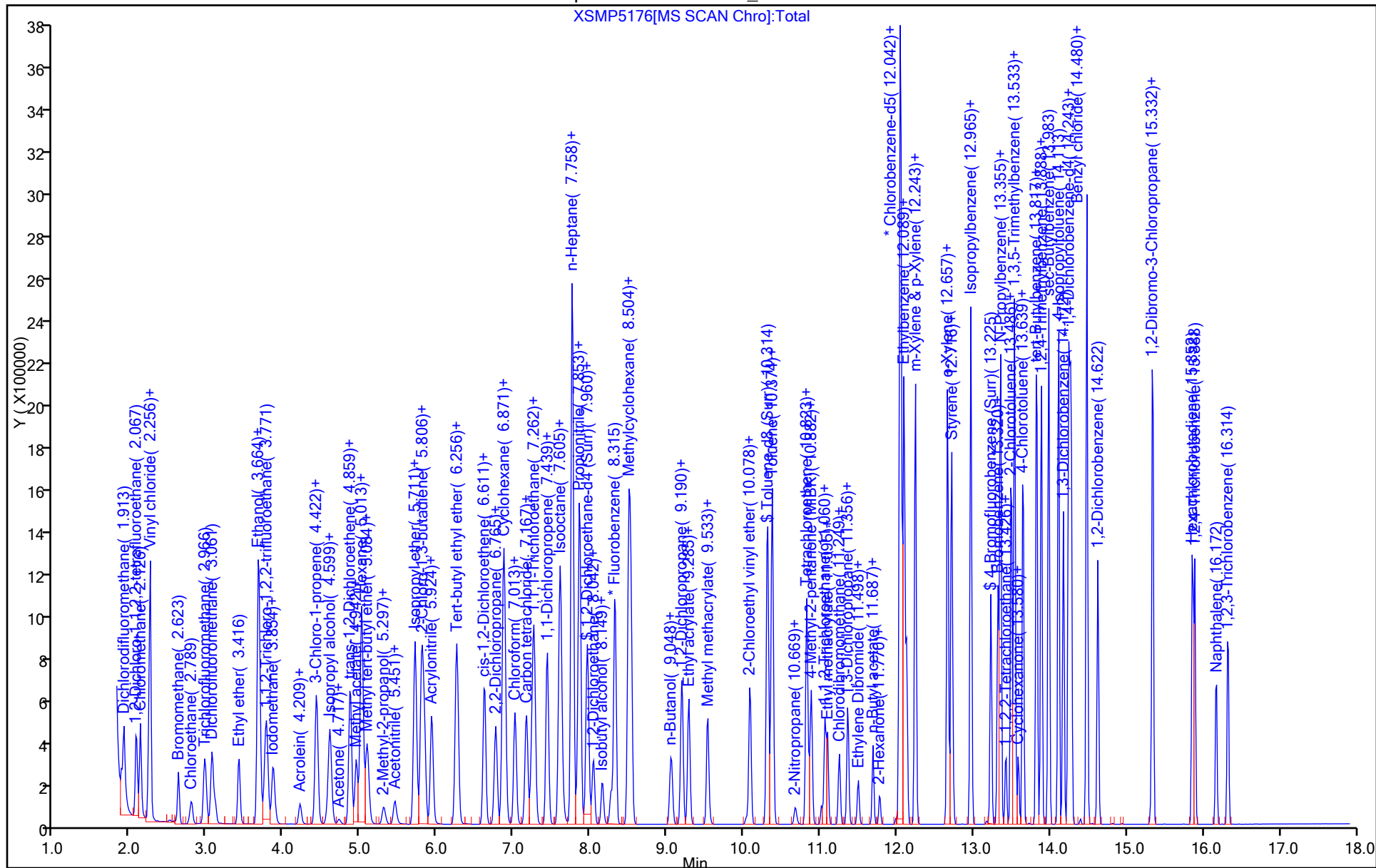
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5176.D
Lims ID: 280-92896-A-6 MS
Client ID: 6MW2003MS
Sample Type: MS
Inject. Date: 16-Jan-2017 20:49:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0009564-010
Misc. Info.: 280-92896-A-6 MS
Operator ID: JDH Instrument ID: VMSX
Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:15:49

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	52.5	105.08
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.5	102.94
\$ 62 Toluene-d8 (Surr)	50.0	48.8	97.50
\$ 86 4-Bromofluorobenzene (Surr)	50.0	45.7	91.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Client Sample ID: 6MW2003MSD MSD Lab Sample ID: 280-92896-6 MSD

Matrix: Water Lab File ID: XSMP5177.D

Analysis Method: 8260C DOD Date Collected: 01/09/2017 15:00

Sample wt/vol: 5(mL) Date Analyzed: 01/16/2017 21:14

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	50.4		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	50.2		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	44.7		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	46.2		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	47.7		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	48.2		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	48.2		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	51.7		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	47.7		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	47.6		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	45.5		10	2.0	1.2
106-93-4	1,2-Dibromoethane	48.1		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	50.1		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	48.7		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	47.5		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	47.1		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	45.6		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	48.4		20	5.0	0.39
95-49-8	2-Chlorotoluene	47.1		5.0	2.0	0.34
591-78-6	2-Hexanone	45.1		20	2.0	0.59
106-43-4	4-Chlorotoluene	46.8		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	45.9		20	2.0	0.33
67-64-1	Acetone	57.7		20	10	6.7
71-43-2	Benzene	46.2		5.0	1.0	0.25
108-86-1	Bromobenzene	48.3		5.0	2.0	0.33
74-97-5	Bromochloromethane	51.3		5.0	2.0	0.55
75-27-4	Bromodichloromethane	51.8		5.0	2.0	0.25
75-25-2	Bromoform	51.3		5.0	1.0	0.37
74-83-9	Bromomethane	50.0		10	2.0	0.40
75-15-0	Carbon disulfide	48.2		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	50.4		5.0	1.0	0.36
108-90-7	Chlorobenzene	49.1		5.0	1.0	0.38
75-00-3	Chloroethane	45.6		10	1.0	0.38
67-66-3	Chloroform	50.3		5.0	1.0	0.15
74-87-3	Chloromethane	40.0		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	53.0		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1
 SDG No.: _____
 Client Sample ID: 6MW2003MSD MSD Lab Sample ID: 280-92896-6 MSD
 Matrix: Water Lab File ID: XSMP5177.D
 Analysis Method: 8260C DOD Date Collected: 01/09/2017 15:00
 Sample wt/vol: 5 (mL) Date Analyzed: 01/16/2017 21:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTXVMS30 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 287920 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	50.0		5.0	1.0	0.34
124-48-1	Dibromochloromethane	51.3		5.0	1.0	0.33
74-95-3	Dibromomethane	50.9		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	51.0		10	2.0	0.45
100-41-4	Ethylbenzene	46.6		5.0	1.0	0.30
98-82-8	Isopropylbenzene	47.2		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	47.0		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	45.9		5.0	2.0	0.40
75-09-2	Methylene Chloride	49.0		7.5	5.0	1.7
91-20-3	Naphthalene	48.0		5.0	2.0	0.85
104-51-8	n-Butylbenzene	49.3		5.0	2.0	0.23
103-65-1	N-Propylbenzene	47.9		5.0	2.0	0.30
95-47-6	o-Xylene	47.9		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	48.7		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	47.4		5.0	2.0	0.31
100-42-5	Styrene	48.0		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	47.4		5.0	2.0	0.31
127-18-4	Tetrachloroethene	49.1		5.0	1.0	0.28
108-88-3	Toluene	45.9		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	48.6		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	48.9		5.0	1.0	0.35
79-01-6	Trichloroethene	50.1		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	54.3		5.0	2.0	0.22
75-01-4	Vinyl chloride	47.7		5.0	1.0	0.43
1330-20-7	Xylenes (total)	94.9		10	5.0	0.85

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		81-118
460-00-4	4-Bromofluorobenzene (Surr)	91		85-114
1868-53-7	Dibromofluoromethane (Surr)	104		80-119
2037-26-5	Toluene-d8 (Surr)	96		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5177.D
 Lims ID: 280-92896-A-6 MSD
 Client ID: 6MW2003MSD
 Sample Type: MSD
 Inject. Date: 16-Jan-2017 21:14:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-011
 Misc. Info.: 280-92896-A-6 MSD
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess

Date: 24-Jan-2017 15:16:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.913	1.913	0.000	100	445927	50.0	51.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.079	2.067	0.012	99	199230	50.0	44.4	
3 Chloromethane	50	2.126	2.126	0.000	99	473672	50.0	40.0	
4 Vinyl chloride	62	2.233	2.233	-0.001	98	436812	50.0	47.7	
121 Butadiene	39	2.256	2.256	0.000	87	392918	50.0	47.0	
5 Bromomethane	94	2.623	2.623	0.000	92	141543	50.0	50.0	
6 Chloroethane	64	2.789	2.789	0.000	98	143514	50.0	45.6	
7 Trichlorofluoromethane	101	2.966	2.966	0.000	99	418135	50.0	54.3	
122 Dichlorofluoromethane	67	3.061	3.061	0.000	97	448495	50.0	51.3	
8 Ethyl ether	74	3.416	3.404	0.012	94	162426	50.0	49.5	
11 Ethanol	45	3.664	3.653	0.011	31	79522	2000.0	2076.9	
9 1,1-Dichloroethene	96	3.664	3.664	0.000	92	358013	50.0	48.2	
10 Carbon disulfide	76	3.664	3.664	0.000	100	1237968	50.0	48.2	
12 1,1,2-Trichloro-1,2,2-trif	151	3.771	3.771	0.000	94	275607	50.0	48.6	
13 Iodomethane	142	3.854	3.854	0.000	99	493043	50.0	49.4	
14 Acrolein	56	4.209	4.197	0.012	99	126230	250.0	183.0	
15 3-Chloro-1-propene	39	4.422	4.422	0.000	91	455043	50.0	50.2	
16 Isopropyl alcohol	45	4.564	4.564	0.000	98	112107	500.0	562.9	
17 Methylene Chloride	84	4.599	4.587	0.012	99	316586	50.0	49.0	
18 Acetone	43	4.717	4.706	0.011	100	52284	50.0	57.7	
19 trans-1,2-Dichloroethene	96	4.859	4.860	-0.001	95	375827	50.0	48.6	
20 Methyl acetate	74	4.942	4.942	0.000	99	122944	250.0	248.0	
21 Hexane	86	5.013	5.013	0.000	86	125000	50.0	45.7	
22 Methyl tert-butyl ether	73	5.084	5.084	0.000	97	593867	50.0	45.9	
23 2-Methyl-2-propanol	59	5.297	5.297	0.000	97	153937	500.0	467.9	
24 Acetonitrile	41	5.451	5.439	0.012	100	207106	500.0	497.0	
25 Isopropyl ether	45	5.711	5.700	0.011	96	1188402	50.0	48.8	
27 2-Chloro-1,3-butadiene	53	5.794	5.794	0.000	93	721783	50.0	48.0	
S 26 1,2-Dichloroethene, Total	96				0			101.6	
28 1,1-Dichloroethane	63	5.830	5.830	0.000	96	688265	50.0	47.7	
29 Acrylonitrile	53	5.924	5.925	0.000	99	634650	500.0	479.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59	6.256	6.244	0.012	98	928681	50.0	46.6	
31 Vinyl acetate	43	6.268	6.256	0.012	97	575894	50.0	50.4	
32 cis-1,2-Dichloroethene	96	6.611	6.611	0.000	83	403248	50.0	53.0	
33 2,2-Dichloropropane	77	6.765	6.753	0.011	92	405272	50.0	45.6	
34 Cyclohexane	84	6.871	6.859	0.012	93	608894	50.0	46.3	
35 Chlorobromomethane	128	6.883	6.883	0.000	94	123764	50.0	51.3	
36 Chloroform	83	7.013	7.013	0.000	94	586271	50.0	50.3	
37 Carbon tetrachloride	117	7.167	7.155	0.012	97	480635	50.0	50.4	
38 Tetrahydrofuran	71	7.226	7.214	0.012	93	33036	100.0	98.1	
39 Ethyl acetate	45	7.238	7.226	0.012	98	49862	100.0	101.1	
\$ 41 Dibromofluoromethane (Surr	113	7.261	7.250	0.011	91	259159	50.0	52.0	
40 1,1,1-Trichloroethane	97	7.261	7.262	-0.001	98	554770	50.0	50.2	
42 1,1-Dichloropropene	75	7.439	7.427	0.012	95	523009	50.0	48.2	
43 2-Butanone (MEK)	43	7.463	7.451	0.012	98	75319	50.0	48.4	
124 Isooctane	57	7.605	7.593	0.012	96	1923031	50.0	47.1	
117 n-Heptane	43	7.758	7.759	-0.001	95	818943	50.0	49.0	
44 Benzene	78	7.758	7.759	-0.001	97	1383949	50.0	46.2	
45 Propionitrile	54	7.829	7.830	-0.001	93	233577	500.0	506.0	
46 Methacrylonitrile	41	7.853	7.853	0.000	94	1067085	500.0	500.1	
\$ 47 1,2-Dichloroethane-d4 (Sur	65	7.948	7.948	0.000	89	271433	50.0	51.5	
48 Tert-amyl methyl ether	73	7.960	7.960	0.000	95	632370	50.0	46.8	
49 1,2-Dichloroethane	62	8.042	8.031	0.011	97	345609	50.0	50.1	
50 Isobutyl alcohol	42	8.149	8.149	0.000	94	106416	1250.0	1218.5	
* 51 Fluorobenzene	96	8.315	8.315	0.000	98	1275649	50.0	50.0	
125 1,4-Difluorobenzene	114		8.427					ND	
52 Methylcyclohexane	55	8.504	8.492	0.012	95	688985	50.0	47.7	
53 Trichloroethene	95	8.528	8.528	0.000	97	357633	50.0	50.1	
A 126 C6-C12	1	8.945	(3.966-13.924)		0	124979083		NC	
54 n-Butanol	56	9.036	9.037	-0.001	89	106556	1250.0	1098.6	
55 Dibromomethane	93	9.060	9.048	0.012	95	128456	50.0	50.9	
56 1,2-Dichloropropane	63	9.190	9.190	0.000	95	356080	50.0	48.7	
123 Ethyl acrylate	55	9.273	9.273	0.000	98	240481	50.0	46.2	
57 Dichlorobromomethane	83	9.285	9.285	0.000	99	372936	50.0	51.8	
58 Methyl methacrylate	69	9.533	9.522	0.011	95	238356	100.0	94.6	
59 1,4-Dioxane	88	9.557	9.545	0.012	88	31852	1000.0	1086.9	M
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63	10.030	10.031	-0.001	82	11068	50.0	4.00	
61 cis-1,3-Dichloropropene	75	10.078	10.078	0.000	93	475283	50.0	50.0	
\$ 62 Toluene-d8 (Surr)	98	10.314	10.303	0.011	94	1235746	50.0	48.2	
63 Toluene	92	10.374	10.374	0.000	98	872437	50.0	45.9	
64 2-Nitropropane	43	10.669	10.670	-0.001	99	67443	100.0	77.0	
65 Tetrachloroethene	164	10.823	10.823	0.000	96	299027	50.0	49.1	
66 4-Methyl-2-pentanone (MIBK	43	10.859	10.859	0.000	96	163018	50.0	45.9	
67 trans-1,3-Dichloropropene	75	10.882	10.882	0.000	95	373674	50.0	48.9	
68 1,1,2-Trichloroethane	83	11.060	11.060	0.000	91	157732	50.0	46.2	
69 Ethyl methacrylate	69	11.095	11.095	0.000	89	238051	50.0	44.0	M
70 Chlorodibromomethane	129	11.249	11.249	0.000	90	218366	50.0	51.3	
71 1,3-Dichloropropane	76	11.356	11.356	0.000	95	360310	50.0	47.1	
72 Ethylene Dibromide	107	11.498	11.498	0.000	98	175276	50.0	48.1	
S 73 1,3-Dichloropropene, Total	75				0			98.9	
118 n-Butyl acetate	43	11.687	11.687	0.000	99	290966	50.0	43.6	
74 2-Hexanone	43	11.770	11.770	0.000	95	110904	50.0	45.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	12.042	12.030	0.012	89	838823	50.0	50.0	
75 1-Chlorohexane	91	12.042	12.042	0.000	83	572496	50.0	51.5	
77 Chlorobenzene	112	12.054	12.054	0.000	96	823323	50.0	49.1	
78 Ethylbenzene	91	12.089	12.089	0.000	96	1671470	50.0	46.6	
79 1,1,1,2-Tetrachloroethane	131	12.125	12.125	0.000	93	267328	50.0	50.4	
80 m-Xylene & p-Xylene	106	12.243	12.243	0.000	97	634066	50.0	47.0	
82 o-Xylene	106	12.657	12.657	0.000	98	594236	50.0	47.9	
83 Styrene	104	12.716	12.717	-0.001	95	884424	50.0	48.0	
84 Bromoform	173	12.728	12.728	0.000	96	96941	50.0	51.3	
85 Isopropylbenzene	105	12.965	12.965	0.000	96	1640724	50.0	47.2	
\$ 86 4-Bromofluorobenzene (Surr	95	13.225	13.225	0.000	85	399200	50.0	45.6	
87 Bromobenzene	156	13.320	13.320	0.000	96	311839	50.0	48.3	
88 N-Propylbenzene	91	13.355	13.356	-0.001	98	1874247	50.0	47.9	
89 1,1,2,2-Tetrachloroethane	83	13.426	13.415	0.011	96	181965	50.0	44.7	
90 2-Chlorotoluene	91	13.486	13.486	0.000	96	1084770	50.0	47.1	
91 1,3,5-Trimethylbenzene	105	13.533	13.533	0.000	94	1268008	50.0	47.5	
92 1,2,3-Trichloropropane	110	13.545	13.545	0.000	82	56246	50.0	47.7	
93 trans-1,4-Dichloro-2-buten	53	13.580	13.580	0.000	87	59907	50.0	44.4	
94 Cyclohexanone	55	13.580	13.580	0.000	76	48462	500.0	420.1	
95 4-Chlorotoluene	91	13.639	13.640	-0.001	99	1062393	50.0	46.8	
81 Pentachloroethane	167		13.776					ND	
96 tert-Butylbenzene	119	13.829	13.817	0.012	93	1119659	50.0	47.4	
97 1,2,4-Trimethylbenzene	105	13.888	13.888	0.000	98	1243422	50.0	47.6	
98 sec-Butylbenzene	105	13.983	13.983	0.000	95	1698807	50.0	47.4	
99 4-Isopropyltoluene	119	14.113	14.113	0.000	97	1392423	50.0	48.7	
100 1,3-Dichlorobenzene	146	14.172	14.172	0.000	98	600011	50.0	47.5	
* 101 1,4-Dichlorobenzene-d4	152	14.243	14.243	0.000	96	357603	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.255	14.255	0.000	92	570867	50.0	48.5	
119 1,2,3-Trimethylbenzene	105	14.278	14.267	0.011	99	1142947	50.0	48.2	
120 Benzyl chloride	126	14.480	14.480	0.000	90	71932	50.0	50.5	
103 n-Butylbenzene	134	14.480	14.480	0.000	97	352478	50.0	49.3	
104 1,2-Dichlorobenzene	146	14.622	14.622	0.000	96	515533	50.0	48.0	
105 1,2-Dibromo-3-Chloropropan	157	15.320	15.320	0.000	87	27630	50.0	45.5	
106 n-Nonyl Aldehyde	57	15.332	15.332	0.000	63	165707	50.0	51.0	
107 1,3,5-Trichlorobenzene	180	15.343	15.344	-0.001	97	473167	50.0	52.8	
108 Hexachlorobutadiene	225	15.864	15.852	0.012	95	245782	50.0	53.7	
109 1,2,4-Trichlorobenzene	180	15.888	15.888	0.000	94	372599	50.0	50.7	
110 Naphthalene	128	16.172	16.172	0.000	97	602097	50.0	48.0	
111 1,2,3-Trichlorobenzene	180	16.326	16.326	0.000	96	306533	50.0	51.7	
S 112 Xylenes, Total	106				0			94.9	
S 113 Trihalomethanes, Total	1				0			204.8	
127 2-Methylpentane	43		4.061					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

8260 NewWkMix_00202

Amount Added: 10.00

Units: uL

I.S. Working_00142

Amount Added: 10.00

Units: uL

Run Reagent

8260 Surr 25_00070

Amount Added: 10.00

Units: uL

Run Reagent

TestAmerica St. Louis

Data File: \\ChromNA\\StLouis\\ChromData\\VMSX\\20170116-9564.b\\XSMP5177.D

Injection Date: 16-Jan-2017 21:14:30

Instrument ID: VMSX

Operator ID: JDH

Lims ID: 280-92896-A-6 MSD

Worklist Smp#: 11

Client ID: 6MW2003MSD

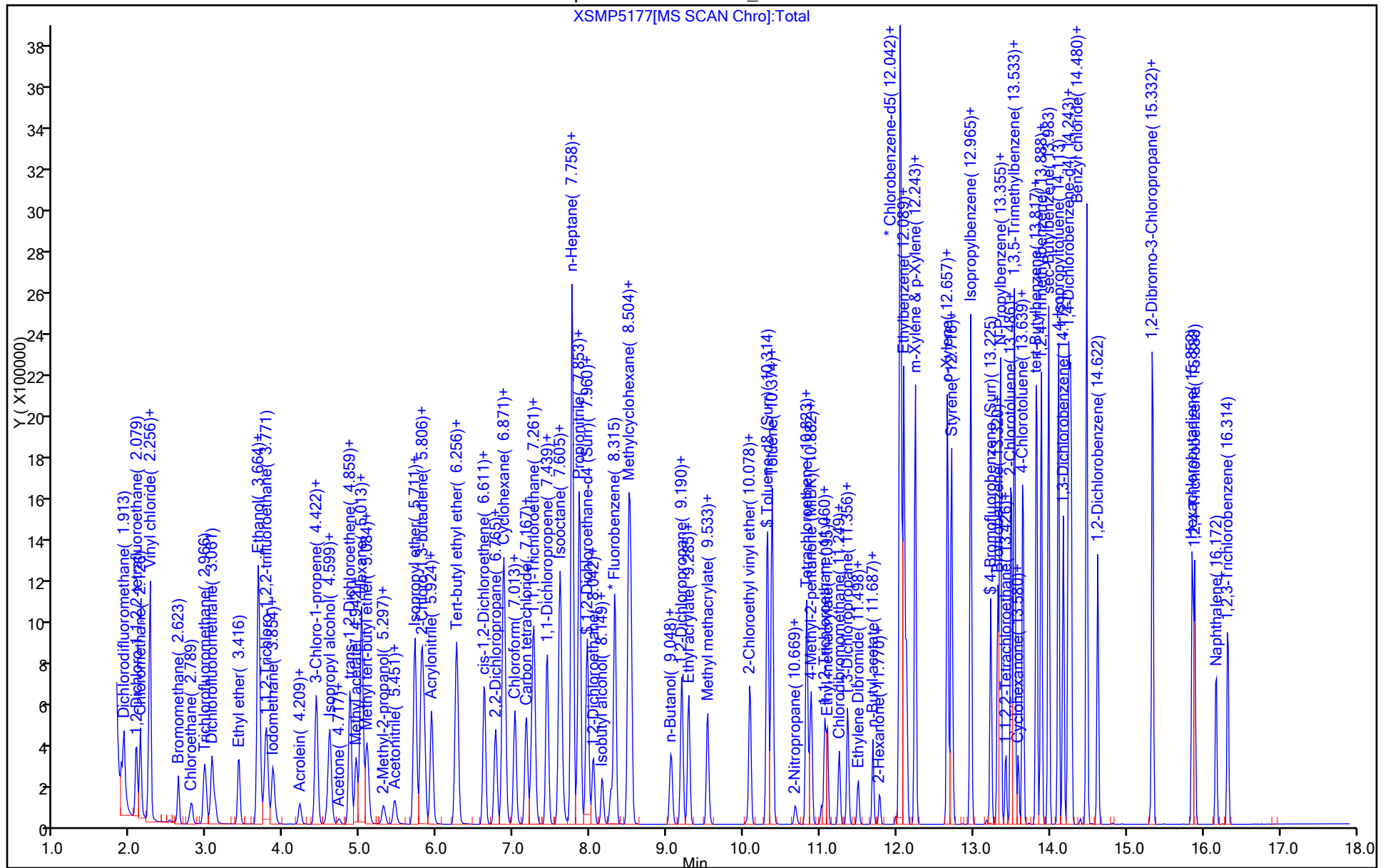
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 5mL-8260-MSX

Limit Group: MSV-8260_DoD



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\XSMP5177.D
 Lims ID: 280-92896-A-6 MSD
 Client ID: 6MW2003MSD
 Sample Type: MSD
 Inject. Date: 16-Jan-2017 21:14:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 160-0009564-011
 Misc. Info.: 280-92896-A-6 MSD
 Operator ID: JDH Instrument ID: VMSX
 Method: \\ChromNA\StLouis\ChromData\VMSX\20170116-9564.b\5mL-8260-MSX.m
 Limit Group: MSV-8260_DoD
 Last Update: 24-Jan-2017 15:20:18 Calib Date: 18-Nov-2016 15:20:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20161118-9113.b\XICL4412.D

Column 1 : Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: rhoadess Date: 24-Jan-2017 15:16:39

Compound	Amount Added	Amount Recovered	% Rec.
\$ 41 Dibromofluoromethane (Surr)	50.0	52.0	104.01
\$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.5	102.96
\$ 62 Toluene-d8 (Surr)	50.0	48.2	96.41
\$ 86 4-Bromofluorobenzene (Surr)	50.0	45.6	91.20

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. LouisJob No.: 280-92896-1

SDG No.: _____

Instrument ID: VMSXStart Date: 11/18/2016 11:37Analysis Batch Number: 279985End Date: 11/18/2016 16:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-279985/1		11/18/2016 11:37	1	XBFB4403.D	RTXVMS30 0.25 (mm)
IC 160-279985/5		11/18/2016 12:29	1	XICL4405.D	RTXVMS30 0.25 (mm)
IC 160-279985/6		11/18/2016 12:53	1	XICL4406.D	RTXVMS30 0.25 (mm)
IC 160-279985/7		11/18/2016 13:18	1	XICL4407.D	RTXVMS30 0.25 (mm)
IC 160-279985/8		11/18/2016 13:43	1	XICL4408.D	RTXVMS30 0.25 (mm)
IC 160-279985/9		11/18/2016 14:07	1	XICL4409.D	RTXVMS30 0.25 (mm)
ICIS 160-279985/10		11/18/2016 14:31	1	XICL4410.D	RTXVMS30 0.25 (mm)
IC 160-279985/11		11/18/2016 14:55	1	XICL4411.D	RTXVMS30 0.25 (mm)
IC 160-279985/12		11/18/2016 15:20	1	XICL4412.D	RTXVMS30 0.25 (mm)
ICV 160-279985/14		11/18/2016 16:09	1	XICV4414.D	RTXVMS30 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. LouisJob No.: 280-92896-1

SDG No.: _____

Instrument ID: VMSXStart Date: 01/16/2017 17:20Analysis Batch Number: 287920End Date: 01/17/2017 00:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-287920/2		01/16/2017 17:20	1	XBFB5168.D	RTXVMS30 0.25 (mm)
CCV 160-287920/3		01/16/2017 17:43	1	XCCV5169.D	RTXVMS30 0.25 (mm)
LCS 160-287920/4		01/16/2017 18:19	1	XLCS5170.D	RTXVMS30 0.25 (mm)
LCSD 160-287920/5		01/16/2017 18:44	1	XLCS5171.D	RTXVMS30 0.25 (mm)
ZZZZZ		01/16/2017 19:08	1		RTXVMS30 0.25 (mm)
MB 160-287920/7		01/16/2017 19:33	1	XBLK5173.D	RTXVMS30 0.25 (mm)
280-92896-8		01/16/2017 19:57	1	XSMP5174.D	RTXVMS30 0.25 (mm)
280-92896-6		01/16/2017 20:24	1	XSMP5175.D	RTXVMS30 0.25 (mm)
280-92896-6 MS		01/16/2017 20:49	1	XSMP5176.D	RTXVMS30 0.25 (mm)
280-92896-6 MSD		01/16/2017 21:14	1	XSMP5177.D	RTXVMS30 0.25 (mm)
280-92896-1		01/16/2017 22:04	1	XSMP5179.D	RTXVMS30 0.25 (mm)
280-92896-2		01/16/2017 22:29	1	XSMP5180.D	RTXVMS30 0.25 (mm)
280-92896-3		01/16/2017 22:54	1	XSMP5181.D	RTXVMS30 0.25 (mm)
ZZZZZ		01/16/2017 23:19	1		RTXVMS30 0.25 (mm)
280-92896-5		01/16/2017 23:44	1	XSMP5183.D	RTXVMS30 0.25 (mm)
280-92896-7		01/17/2017 00:08	1	XSMP5184.D	RTXVMS30 0.25 (mm)
CCVC 160-287920/19		01/17/2017 00:34	1	XCCV5185.D	RTXVMS30 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. Louis Job No.: 280-92896-1

SDG No.: _____

Instrument ID: VMSX Start Date: 01/19/2017 14:22Analysis Batch Number: 288297 End Date: 01/19/2017 22:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-288297/2		01/19/2017 14:22	1	XBFB5231.D	RTXVMS30 0.25 (mm)
CCV 160-288297/3		01/19/2017 14:45	1	XCCV5232.D	RTXVMS30 0.25 (mm)
LCS 160-288297/4		01/19/2017 15:26	1	XLCS5233.D	RTXVMS30 0.25 (mm)
LCSD 160-288297/5		01/19/2017 15:51	1	XLCS5234.D	RTXVMS30 0.25 (mm)
ZZZZZ		01/19/2017 16:16	1		RTXVMS30 0.25 (mm)
MB 160-288297/7		01/19/2017 16:57	1	XBLK5236.D	RTXVMS30 0.25 (mm)
280-92896-4 RA		01/19/2017 18:57	1	XSMP5240.D	RTXVMS30 0.25 (mm)
ZZZZZ		01/19/2017 20:12	1		RTXVMS30 0.25 (mm)
ZZZZZ		01/19/2017 20:37	1		RTXVMS30 0.25 (mm)
ZZZZZ		01/19/2017 21:27	1		RTXVMS30 0.25 (mm)
ZZZZZ		01/19/2017 21:52	1		RTXVMS30 0.25 (mm)
ZZZZZ		01/19/2017 22:16	10		RTXVMS30 0.25 (mm)
CCVC 160-288297/20		01/19/2017 22:41	1	XCCV5249.D	RTXVMS30 0.25 (mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job Number: 280-92896-1

SDG No.: _____

Project: Schenectady ANGB, NY

Client Sample ID

6MW2403

6MW2203

6MW2303

6MW2603

6MW2503

6MW2003

6MW2003D

Lab Sample ID

280-92896-1

280-92896-2

280-92896-3

280-92896-4

280-92896-5

280-92896-6

280-92896-7

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2403

Lab Sample ID: 280-92896-1

Lab Name: TestAmerica Denver

Job No.: 280-92896-1

SDG ID.:

Matrix: Water

Date Sampled: 01/09/2017 10:50

Reporting Basis: WET

Date Received: 01/11/2017 10:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	9.4	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2203

Lab Sample ID: 280-92896-2

Lab Name: TestAmerica Denver

Job No.: 280-92896-1

SDG ID.:

Matrix: Water

Date Sampled: 01/09/2017 11:50

Reporting Basis: WET

Date Received: 01/11/2017 10:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	280	7.0	3.5	1.1	mg/L			7	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2303	Lab Sample ID: 280-92896-3
Lab Name: TestAmerica Denver	Job No.: 280-92896-1
SDG ID.:	
Matrix: Water	Date Sampled: 01/09/2017 12:45
Reporting Basis: WET	Date Received: 01/11/2017 10:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	2.6	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2603

Lab Sample ID: 280-92896-4

Lab Name: TestAmerica Denver

Job No.: 280-92896-1

SDG ID.:

Matrix: Water

Date Sampled: 01/09/2017 13:30

Reporting Basis: WET

Date Received: 01/11/2017 10:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	6.1	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2503

Lab Sample ID: 280-92896-5

Lab Name: TestAmerica Denver

Job No.: 280-92896-1

SDG ID.:

Matrix: Water

Date Sampled: 01/09/2017 14:15

Reporting Basis: WET

Date Received: 01/11/2017 10:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	5.1	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2003

Lab Sample ID: 280-92896-6

Lab Name: TestAmerica Denver

Job No.: 280-92896-1

SDG ID.:

Matrix: Water

Date Sampled: 01/09/2017 15:00

Reporting Basis: WET

Date Received: 01/11/2017 10:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	8.0	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2003D

Lab Sample ID: 280-92896-7

Lab Name: TestAmerica Denver

Job No.: 280-92896-1

SDG ID.:

Matrix: Water

Date Sampled: 01/09/2017 15:05

Reporting Basis: WET

Date Received: 01/11/2017 10:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	8.4	1.0	0.50	0.16	mg/L			1	9060A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-92896-1
 SDG No.: _____
 Analyst: CCJ Batch Start Date: 01/12/2017
 Reporting Units: mg/L Analytical Batch No.: 358691

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
5	ICV	11:14	Total Organic Carbon - Quad	19.6	20.0	98	90-110		TOC ICV Std_00029
6	ICB	11:30	Total Organic Carbon - Quad	0.50				U	
31	CCV	17:44	Total Organic Carbon - Quad	24.3	25.0	97	90-110		TOC LCS Std_00034
32	CCB	17:59	Total Organic Carbon - Quad	0.226				J	
43	CCV	20:46	Total Organic Carbon - Quad	24.4	25.0	97	90-110		TOC LCS Std_00034
44	CCB	21:01	Total Organic Carbon - Quad	0.191				J	
55	CCV	23:56	Total Organic Carbon - Quad	24.6	25.0	98	90-110		TOC LCS Std_00034
56	CCB	00:11	Total Organic Carbon - Quad	0.231				J	
67	CCV	02:57	Total Organic Carbon - Quad	24.5	25.0	98	90-110		TOC LCS Std_00034
68	CCB	03:13	Total Organic Carbon - Quad	0.186				J	

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

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job No.: 280-92896-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 358691 Date: 01/12/2017 19:47							
9060A	MB 280-358691/39	Total Organic Carbon - Quad	0.213	J	mg/L	1.0	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job No.: 280-92896-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 358691 Date: 01/13/2017 01:28											
9060A	280-92896-6	Total Organic Carbon - Quad	8.0		mg/L						
9060A	280-92896-6 MS	Total Organic Carbon - Quad	32.4		mg/L	25.0	98	88-112			

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

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-92896-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 358691 Date: 01/13/2017 01:43											
9060A	280-92896-6	Total Organic Carbon -	32.8		mg/L	25.0	99	88-112	1	15	
	MSD	Quad									

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

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-92896-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 358691 Date: 01/12/2017 19:32											
						LCS Source: TOC LCS Std_00034					
9060A	LCS 280-358691/38	Total Organic Carbon - Quad	24.5		mg/L	25.0	98	88-112			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job Number: 280-92896-1

SDG Number: _____

Matrix: Water

Instrument ID: WC_SHI2

Method: 9060A

DL Date: 03/28/2011 11:39

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Total Organic Carbon - Quad		1	0.155

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job Number: 280-92896-1

SDG Number: _____

Matrix: Water

Instrument ID: WC_SHI2

Method: 9060A

XMDL Date: 03/28/2011 11:39

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Organic Carbon - Quad		1	0.155

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-92896-1

SDG No.: _____

Instrument ID: WC_SHI2 Analysis Method: 9060A

Start Date: 01/12/2017 10:12 End Date: 01/13/2017 03:59

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				T O C Q																									
ICV 280-358691/1			10:12																										
ICB 280-358691/2			10:28																										
ZZZZZZ			10:42																										
ZZZZZZ			10:57																										
ICV 280-358691/5	1		11:14	X																									
ICB 280-358691/6	1		11:30	X																									
ZZZZZZ			11:44																										
ZZZZZZ			12:00																										
ZZZZZZ			12:14																										
ZZZZZZ			12:29																										
ZZZZZZ			12:43																										
ZZZZZZ			12:59																										
ZZZZZZ			13:14																										
ZZZZZZ			13:28																										
ZZZZZZ			13:43																										
ZZZZZZ			13:57																										
ZZZZZZ			14:12																										
ZZZZZZ			14:27																										
CCV 280-358691/19			14:41																										
CCB 280-358691/20			14:56																										
ZZZZZZ			15:11																										
ZZZZZZ			15:26																										
ZZZZZZ			15:40																										
ZZZZZZ			15:55																										
ZZZZZZ			16:09																										
ZZZZZZ			16:24																										
ZZZZZZ			16:42																										
ZZZZZZ			16:59																										
ZZZZZZ			17:14																										
ZZZZZZ			17:29																										
CCV 280-358691/31	1		17:44	X																									
CCB 280-358691/32	1		17:59	X																									
ZZZZZZ			18:16																										
ZZZZZZ			18:33																										
ZZZZZZ			18:48																										
ZZZZZZ			19:03																										
ZZZZZZ			19:17																										
LCS 280-358691/38	1	T	19:32	X																									
MB 280-358691/39	1	T	19:47	X																									
ZZZZZZ			20:02																										

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-92896-1

SDG No.: _____

Instrument ID: WC_SHI2 Analysis Method: 9060A

Start Date: 01/12/2017 10:12 End Date: 01/13/2017 03:59

Lab Sample Id	D/F	T y p e	Time	Analytes																									
				T O C Q																									
ZZZZZZ			20:16																										
ZZZZZZ			20:31																										
CCV 280-358691/43	1		20:46	X																									
CCB 280-358691/44	1		21:01	X																									
ZZZZZZ			21:15																										
ZZZZZZ			21:30																										
ZZZZZZ			21:45																										
ZZZZZZ			22:00																										
ZZZZZZ			22:15																										
ZZZZZZ			22:29																										
ZZZZZZ			22:44																										
ZZZZZZ			22:58																										
280-92896-1	1	T	23:13	X																									
280-92896-2	7	T	23:38	X																									
CCV 280-358691/55	1		23:56	X																									
CCB 280-358691/56	1		00:11	X																									
280-92896-3	1	T	00:27	X																									
280-92896-4	1	T	00:42	X																									
280-92896-5	1	T	00:59	X																									
280-92896-6	1	T	01:13	X																									
280-92896-6 MS	1	T	01:28	X																									
280-92896-6 MSD	1	T	01:43	X																									
280-92896-7	1	T	01:59	X																									
ZZZZZZ			02:13																										
ZZZZZZ			02:28																										
ZZZZZZ			02:42																										
CCV 280-358691/67	1		02:57	X																									
CCB 280-358691/68	1		03:13	X																									
ZZZZZZ			03:27																										
CCV 280-358691/70			03:44																										
CCB 280-358691/71			03:59																										

Prep Types: _____
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-92896-1

SDG No.: _____

Batch Number: 358691 Batch Start Date: 01/12/17 10:12 Batch Analyst: Jewell, Connie CBatch Method: 9060A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TOC ICV Std 00029	TOC LCS Std 00034			
ICV 280-358691/5		9060A		50 mL	1 mL				
CCV 280-358691/31		9060A		200 mL		5 mL			
LCS 280-358691/38		9060A		200 mL		5 mL			
CCV 280-358691/43		9060A		200 mL		5 mL			
CCV 280-358691/55		9060A		200 mL		5 mL			
280-92896-A-6 MS	6MW2003MS	9060A	T	50 mL		1.25 mL			
280-92896-A-6 MSD	6MW2003MSD	9060A	T	50 mL		1.25 mL			
CCV 280-358691/67		9060A		200 mL		5 mL			

Batch Notes	
Sulfuric Acid ID	H2SO4_00161, 0.2%H2SO4_00260
Pipette ID	wc5000cj, wc1000cj

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.

9060A

Page 1 of 1

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-92896-1

SDG No.: _____

Batch Number: 358692 Batch Start Date: 01/12/17 10:12 Batch Analyst: Jewell, Connie CBatch Method: 9060A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TOC LCS Std 00034				
LCS 280-358692/38		9060A		200 mL	5 mL				
280-92896-A-6 MS	6MW2003MS	9060A	T	50 mL	1.25 mL				
280-92896-A-6 MSD	6MW2003MSD	9060A	T	50 mL	1.25 mL				

Batch Notes	
Sulfuric Acid ID	H2SO4_00161, 0.2%H2SO4_00260
Pipette ID	wc5000cj, wc1000cj

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.

9060A

Page 1 of 1

CS
11/12/17

	Analysis	Sample Name	Dilution	Result	Comment	Date / Time	Vial
1	NPOC	ICV	1.000	LL			1
2	NPOC	ICB	1.000	LL			2
3	NPOC	280-92361-A-2	1.000	LL	waste stream test		68
4	NPOC	280-92361-a-4	1.000	LL			69
5	NPOC	ICV	1.000	LL			70
6	NPOC	ICB	1.000	LL			71
7	NPOC	LCS	1.000	LL			3
8	NPOC	MB	1.000	LL			4
9	NPOC	TIC	1.000	LL			5
10	NPOC	280-92751-b-1	1.000	LL			6
11	NPOC	MS 280-92751-b-1	1.000	LL			7
12	NPOC	MSD 280-92751-b-1	1.000	LL			8
13	NPOC	280-92751-b-2	1.000	LL			9
14	NPOC	280-92809-d-1	1.000	LL			10
15	NPOC	280-92819-c-1	1.000	LL			11
16	NPOC	280-92819-c-2	1.000	LL			12
17	NPOC	280-92819-c-3	1.000	LL			13
18	NPOC	280-92819-c-4	1.000	LL			14
19	NPOC	CCV	1.000	LL			15
20	NPOC	CCB	1.000	LL			16
21	NPOC	280-92819-b-5	1.000	LL			17
22	NPOC	280-92819-b-6	1.000	LL			18
23	NPOC	280-92819-b-7	1.000	LL			19
24	NPOC	280-92824-d-1	1.000	LL			20
25	NPOC	280-92824-c-2	1.000	LL			21
26	NPOC	280-92859-j-4	1.000	LL	dirty		22
27	NPOC	MS 280-92859-j-4	1.000	LL			23
28	NPOC	MSD 280-92859-j-4	1.000	LL	dirty		24
29	NPOC	280-92859-j-5	1.000	LL			25
30	NPOC	280-92871-e-1	1.000	LL			26
31	NPOC	CCV	1.000	LL			27
32	NPOC	CCB	1.000	LL			28
33	NPOC	280-92871-e-2	1.000	LL			29
34	NPOC	280-92871-e-3	1.000	LL			30
35	NPOC	280-92871-e-4	1.000	LL			31
36	NPOC	280-92871-e-5	1.000	LL			32
37	NPOC	280-92871-e-6	1.000	LL			33
38	NPOC	LCS	1.000	LL			34
39	NPOC	MB	1.000	LL			35
40	NPOC	TIC	1.000	LL			36
41	NPOC	280-92888-e-1	1.000	LL			37
42	NPOC	280-92888-g-2	1.000	LL			38
43	NPOC	CCV	1.000	LL			39
44	NPOC	CCB	1.000	LL			40
45	NPOC	MS 280-92888-g-2	1.000	LL			41
46	NPOC	MSD 280-92888-g-2	1.000	LL			42
47	NPOC	280-92888-e-3	1.000	LL			43
48	NPOC	280-92888-e-4	1.000	LL			44
49	NPOC	280-92888-e-5	1.000	LL			45
50	NPOC	280-92888-e-6	1.000	LL			46
51	NPOC	280-92888-e-7	1.000	LL			47
52	NPOC	280-92888-e-8	1.000	LL			48
53	NPOC	280-92896-a-1	1.000	LL			49
54	NPOC	280-92896-a-2	1.000	LL			50
55	NPOC	CCV	1.000	LL			51
56	NPOC	CCB	1.000	LL			52
57	NPOC	280-92896-a-3	1.000	LL			53
58	NPOC	280-92896-a-4	1.000	LL			54
59	NPOC	280-92896-a-5	1.000	LL			55
60	NPOC	280-92896-a-6	1.000	LL			56
61	NPOC	MS 280-92896-a-6	1.000	LL			57
62	NPOC	MSD 280-92896-a-6	1.000	LL			58
63	NPOC	280-92896-a-7	1.000	LL			59
64	NPOC	280-92897-d-1	1.000	LL			60
65	NPOC	280-92897-E-1	1.000	LL			61
66	NPOC	320-24880-n-1	1.000	LL			62
67	NPOC	CCV	1.000	LL			63

pH 11.2/13

	Analysis	Sample Name	Dilution	~~Result~~	Comment	Date / Time	Vial
68	NPOC	CCB	1.000	u			64
69	NPOC	320-24880-n-2	1.000	u			65
70	NPOC	CCV	1.000	u			66
71	NPOC	CCB	1.000	u			67

	Analysis	Sample Name	Dilution	Result	Comment	Date / Time	Vial
1	NPOC	ICV	1.000	NPOC:19.83ppm		01/12/2017 10:19:56 AM	1
2	NPOC	ICB	1.000	NPOC:0.1666ppm		01/12/2017 10:34:30 AM	2
3	NPOC	280-92361-A-2	20.00	NPOC:76.48ppm		01/12/2017 10:49:15 AM	68
4	NPOC	280-92361-a-4	20.00	NPOC:213.0ppm		01/12/2017 11:06:14 AM	69
5	NPOC	ICV	1.000	NPOC:19.58ppm		01/12/2017 11:21:50 AM	70
6	NPOC	ICB	1.000	NPOC:0.1460ppm		01/12/2017 11:36:26 AM	71
7	NPOC	LCS	1.000	NPOC:24.37ppm		01/12/2017 11:51:48 AM	3
8	NPOC	MB	1.000	NPOC:0.1744ppm		01/12/2017 12:06:22 PM	4
9	NPOC	TIC	1.000	NPOC:0.2904ppm		01/12/2017 12:20:56 PM	5
10	NPOC	280-92751-b-1	1.000	NPOC:0.2293ppm		01/12/2017 12:35:30 PM	6
11	NPOC	MS 280-92751-b-1	1.000	NPOC:24.42ppm		01/12/2017 12:50:37 PM	7
12	NPOC	MSD 280-92751-b-1	1.000	NPOC:24.44ppm		01/12/2017 01:05:45 PM	8
13	NPOC	280-92751-b-2	1.000	NPOC:0.1790ppm		01/12/2017 01:20:19 PM	9
14	NPOC	280-92809-d-1	1.000	NPOC:9.355ppm		01/12/2017 01:35:07 PM	10
15	NPOC	280-92819-c-1	1.000	NPOC:5.992ppm		01/12/2017 01:49:41 PM	11
16	NPOC	280-92819-c-2	1.000	NPOC:6.241ppm		01/12/2017 02:04:15 PM	12
17	NPOC	280-92819-c-3	1.000	NPOC:5.959ppm		01/12/2017 02:18:50 PM	13
18	NPOC	280-92819-c-4	1.000	NPOC:4.477ppm		01/12/2017 02:33:24 PM	14
19	NPOC	CCV	1.000	NPOC:24.28ppm		01/12/2017 02:48:40 PM	15
20	NPOC	CCB	1.000	NPOC:0.1731ppm		01/12/2017 03:03:14 PM	16
21	NPOC	280-92819-b-5	1.000	NPOC:3.271ppm		01/12/2017 03:17:48 PM	17
22	NPOC	280-92819-b-6	1.000	NPOC:4.212ppm		01/12/2017 03:32:22 PM	18
23	NPOC	280-92819-b-7	1.000	NPOC:5.598ppm		01/12/2017 03:46:58 PM	19
24	NPOC	280-92824-d-1	1.000	NPOC:4.155ppm		01/12/2017 04:01:32 PM	20
25	NPOC	280-92824-c-2	1.000	NPOC:9.285ppm		01/12/2017 04:16:13 PM	21
26	NPOC	280-92859-j-4	5.000	NPOC:152.1ppm		01/12/2017 04:31:09 PM	22
27	NPOC	MS 280-92859-j-4	5.000	NPOC:416.2ppm		01/12/2017 04:48:53 PM	23
28	NPOC	MSD 280-92859-j-4	5.000	NPOC:407.8ppm		01/12/2017 05:06:18 PM	24
29	NPOC	280-92859-j-5	5.000	NPOC:62.62ppm		01/12/2017 05:21:10 PM	25
30	NPOC	280-92871-e-1	1.000	NPOC:4.421ppm		01/12/2017 05:35:44 PM	26
31	NPOC	CCV	1.000	NPOC:24.33ppm		01/12/2017 05:51:04 PM	27
32	NPOC	CCB	1.000	NPOC:0.2260ppm		01/12/2017 06:07:54 PM	28
33	NPOC	280-92871-e-2	1.000	NPOC:8.871ppm		01/12/2017 06:22:42 PM	29
34	NPOC	280-92871-e-3	1.000	NPOC:13.33ppm		01/12/2017 06:39:47 PM	30
35	NPOC	280-92871-e-4	1.000	NPOC:10.10ppm		01/12/2017 06:54:24 PM	31
36	NPOC	280-92871-e-5	1.000	NPOC:4.999ppm		01/12/2017 07:09:19 PM	32
37	NPOC	280-92871-e-6	1.000	NPOC:2.772ppm		01/12/2017 07:23:54 PM	33
38	NPOC	LCS	1.000	NPOC:24.51ppm		01/12/2017 07:39:18 PM	34
39	NPOC	MB	1.000	NPOC:0.2133ppm		01/12/2017 07:53:53 PM	35
40	NPOC	TIC	1.000	NPOC:0.3279ppm		01/12/2017 08:08:28 PM	36
41	NPOC	280-92888-e-1	1.000	NPOC:0.4250ppm		01/12/2017 08:23:03 PM	37
42	NPOC	280-92888-g-2	1.000	NPOC:0.6794ppm		01/12/2017 08:37:38 PM	38
43	NPOC	CCV	1.000	NPOC:24.36ppm		01/12/2017 08:52:47 PM	39
44	NPOC	CCB	1.000	NPOC:0.1915ppm		01/12/2017 09:07:22 PM	40
45	NPOC	MS 280-92888-g-2	1.000	NPOC:24.92ppm		01/12/2017 09:22:30 PM	41
46	NPOC	MSD 280-92888-g-2	1.000	NPOC:24.96ppm		01/12/2017 09:37:35 PM	42
47	NPOC	280-92888-e-3	1.000	NPOC:1.007ppm		01/12/2017 09:52:10 PM	43
48	NPOC	280-92888-e-4	1.000	NPOC:1.038ppm		01/12/2017 10:06:45 PM	44
49	NPOC	280-92888-e-5	1.000	NPOC:1.315ppm		01/12/2017 10:21:20 PM	45
50	NPOC	280-92888-e-6	1.000	NPOC:0.6759ppm		01/12/2017 10:35:55 PM	46
51	NPOC	280-92888-e-7	1.000	NPOC:4.240ppm		01/12/2017 10:50:30 PM	47
52	NPOC	280-92888-e-8	1.000	NPOC:2.986ppm		01/12/2017 11:05:05 PM	48
53	NPOC	280-92896-a-1	1.000	NPOC:9.433ppm		01/12/2017 11:19:48 PM	49
54	NPOC	280-92896-a-2	1.000	NPOC:281.2ppm		01/12/2017 11:45:10 PM	50
55	NPOC	CCV	1.000	NPOC:24.59ppm		01/13/2017 12:02:53 AM	51
56	NPOC	CCB	1.000	NPOC:0.2307ppm		01/13/2017 12:17:31 AM	52
57	NPOC	280-92896-a-3	1.000	NPOC:2.572ppm		01/13/2017 12:34:18 AM	53
58	NPOC	280-92896-a-4	1.000	NPOC:6.071ppm		01/13/2017 12:48:56 AM	54
59	NPOC	280-92896-a-5	1.000	NPOC:5.061ppm		01/13/2017 01:05:38 AM	55
60	NPOC	280-92896-a-6	1.000	NPOC:7.969ppm		01/13/2017 01:20:16 AM	56
61	NPOC	MS 280-92896-a-6	1.000	NPOC:32.40ppm		01/13/2017 01:35:32 AM	57
62	NPOC	MSD 280-92896-a-6	1.000	NPOC:32.77ppm		01/13/2017 01:50:46 AM	58
63	NPOC	280-92896-a-7	1.000	NPOC:8.418ppm		01/13/2017 02:05:26 AM	59
64	NPOC	280-92897-d-1	1.000	NPOC:0.3887ppm		01/13/2017 02:20:02 AM	60
65	NPOC	280-92897-E-1	1.000	NPOC:0.4144ppm		01/13/2017 02:34:38 AM	61
66	NPOC	320-24880-n-1	1.000	NPOC:3.170ppm		01/13/2017 02:49:14 AM	62
67	NPOC	CCV	1.000	NPOC:24.52ppm		01/13/2017 03:04:45 AM	63
68	NPOC	CCB	1.000	NPOC:0.1858ppm		01/13/2017 03:19:21 AM	64
69	NPOC	320-24880-n-2	1.000	NPOC:0.6699ppm		01/13/2017 03:36:03 AM	65
70	NPOC	CCV	1.000	NPOC:24.59ppm		01/13/2017 03:51:29 AM	66

	Analysis	Sample Name	Dilution	Result	Comment	Date / Time	Vial
71	NPOC	CCB	1.000	NPOC:0.1882ppm		01/13/2017 04:06:05 AM	67

Instr.Information

System TOC-VCSH(2)
Detector Combustion
Catalyst Regular Sensitivity
Cell Length long

Sample

Sample Name: ICV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

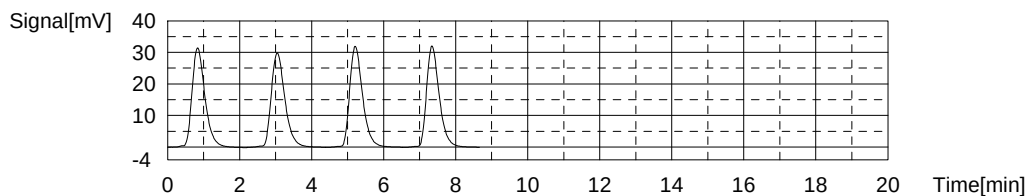
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:19.83ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	79.99	19.82ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:12:54 AM
2	79.77	19.77ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:15:16 AM
3	80.96	20.06ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:17:36 AM
4	79.46	19.69ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:19:56 AM

Mean Area 80.05
Mean Conc. 19.83ppm



Sample

Sample Name: ICB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

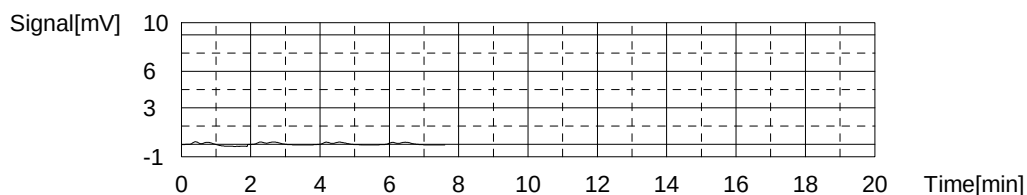
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1666ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7654	0.1729ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:28:12 AM
2	0.7755	0.1754ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:30:18 AM
3	0.6911	0.1545ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:32:24 AM
4	0.7291	0.1639ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:34:30 AM

Mean Area 0.7403
Mean Conc. 0.1666ppm



Sample

Sample Name: 280-92361-A-2
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

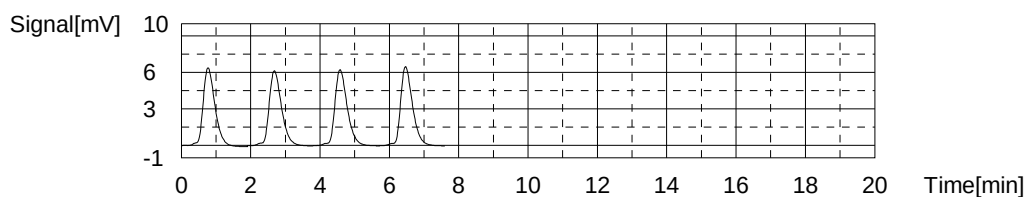
Type	Anal.	Dil.	Result
Unknown	NPOC	20.00	NPOC:76.48ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.34	75.74ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:42:57 AM
2	15.43	76.19ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:45:03 AM
3	15.54	76.74ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:47:09 AM
4	15.64	77.23ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:49:15 AM

Mean Area 15.49
Mean Conc. 76.48ppm



Sample

Sample Name: 280-92361-a-4
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

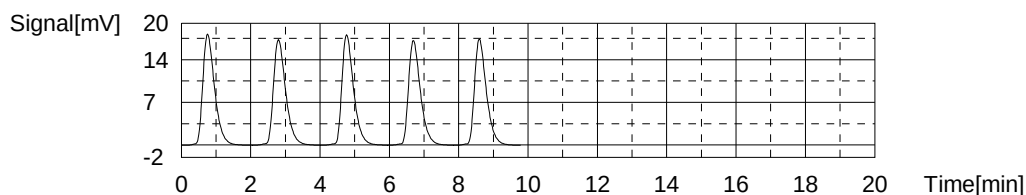
Type	Anal.	Dil.	Result
Unknown	NPOC	20.00	NPOC:213.0ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	43.75	216.7ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:57:41 AM
2	43.14	213.6ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:59:52 AM
3	43.04	213.1ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:01:59 AM
4	41.67	206.3ppm	50uL	1	E	1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:04:05 AM
5	42.12	208.6ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:06:14 AM

Mean Area 43.01
Mean Conc. 213.0ppm



Sample

Sample Name: ICV
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

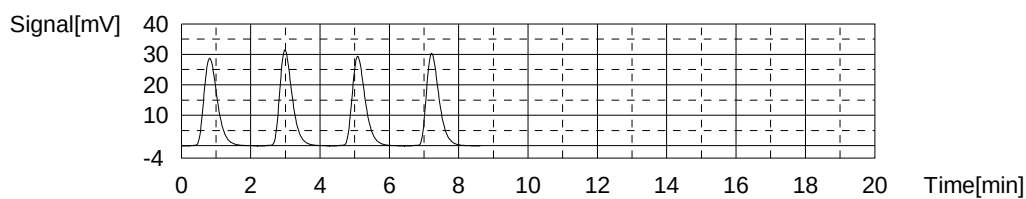
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:19.58ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	78.69	19.50ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:14:48 AM
2	80.20	19.87ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:17:05 AM
3	78.38	19.42ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:19:26 AM
4	78.89	19.55ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:21:50 AM

Mean Area 79.04
Mean Conc. 19.58ppm



Sample

Sample Name: ICB
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

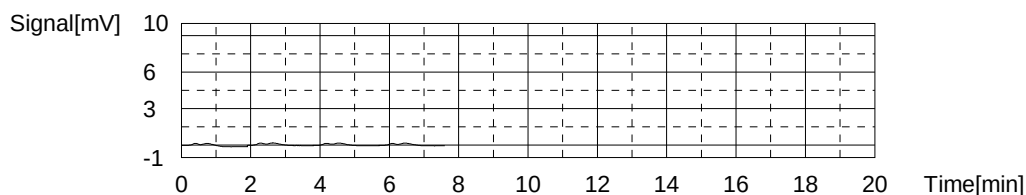
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1460ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6355	0.1407ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:30:08 AM
2	0.6845	0.1528ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:32:14 AM
3	0.6770	0.1510ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:34:20 AM
4	0.6313	0.1396ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:36:26 AM

Mean Area 0.6571
Mean Conc. 0.1460ppm



Sample

Sample Name: LCS
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

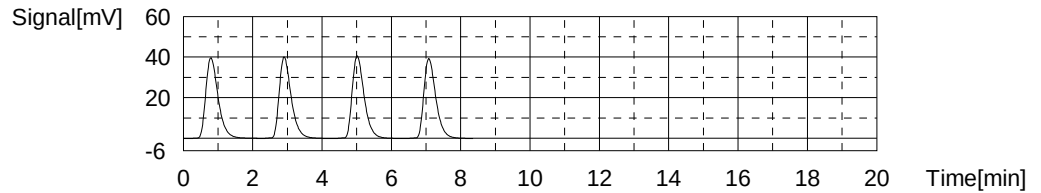
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.37ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.59	24.68ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:44:58 AM
2	98.42	24.39ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:47:16 AM
3	99.41	24.64ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:49:32 AM
4	96.00	23.79ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:51:48 AM

Mean Area 98.36
Mean Conc. 24.37ppm



Sample

Sample Name: MB
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

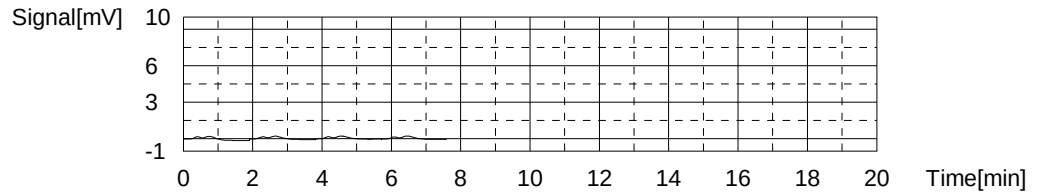
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1744ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7854	0.1778ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 12:00:04 PM
2	0.7982	0.1810ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 12:02:10 PM
3	0.7526	0.1697ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 12:04:16 PM
4	0.7495	0.1689ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 12:06:22 PM

Mean Area 0.7714
Mean Conc. 0.1744ppm



Sample

Sample Name: TIC
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

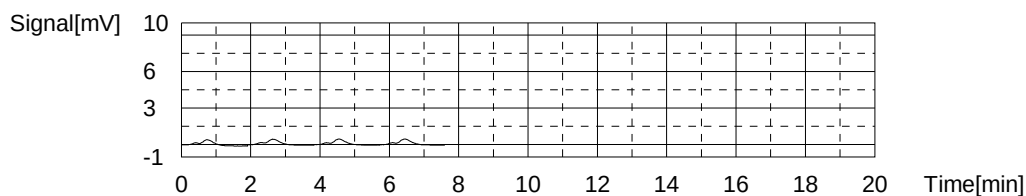
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2904ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.122	0.2613ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 12:14:38 PM
2	1.321	0.3107ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 12:16:44 PM
3	1.242	0.2911ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 12:18:50 PM
4	1.272	0.2985ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 12:20:56 PM

Mean Area 1.239
Mean Conc. 0.2904ppm



Sample

Sample Name: 280-92751-b-1
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

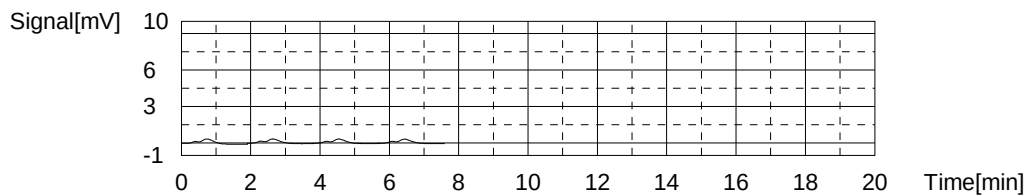
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2293ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.007	0.2328ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 12:29:12 PM
2	1.022	0.2365ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 12:31:18 PM
3	0.9814	0.2264ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 12:33:24 PM
4	0.9608	0.2213ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 12:35:30 PM

Mean Area 0.9928
Mean Conc. 0.2293ppm



Sample

Sample Name: MS 280-92751-b-1
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

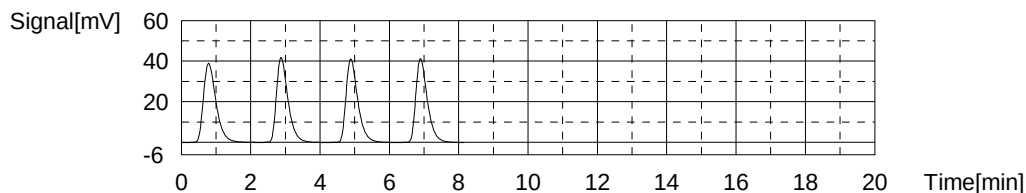
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.42ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.67	24.70ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 12:43:59 PM
2	98.63	24.44ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 12:46:11 PM
3	98.59	24.43ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 12:48:24 PM
4	97.28	24.11ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 12:50:37 PM

Mean Area 98.54
Mean Conc. 24.42ppm



Sample

Sample Name: MSD 280-92751-b-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

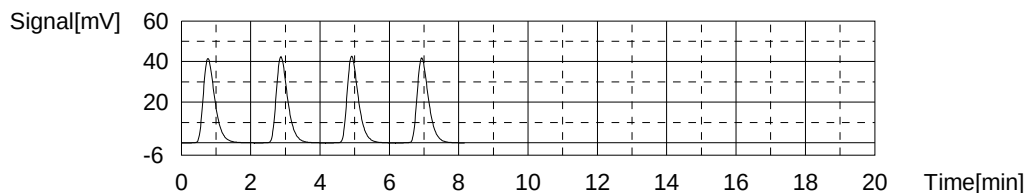
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.44ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.51	24.41ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 12:59:05 PM
2	99.46	24.65ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 01:01:20 PM
3	98.67	24.45ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 01:03:33 PM
4	97.80	24.24ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 01:05:45 PM

Mean Area 98.61
Mean Conc. 24.44ppm



Sample

Sample Name: 280-92751-b-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

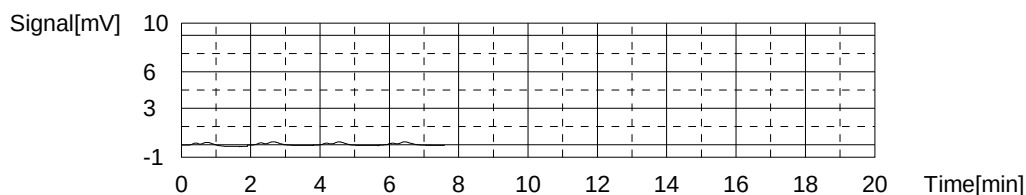
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1790ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7664	0.1731ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 01:14:01 PM
2	0.8436	0.1923ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 01:16:07 PM
3	0.7912	0.1793ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 01:18:13 PM
4	0.7589	0.1713ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 01:20:19 PM

Mean Area 0.7900
Mean Conc. 0.1790ppm



Sample

Sample Name: 280-92809-d-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

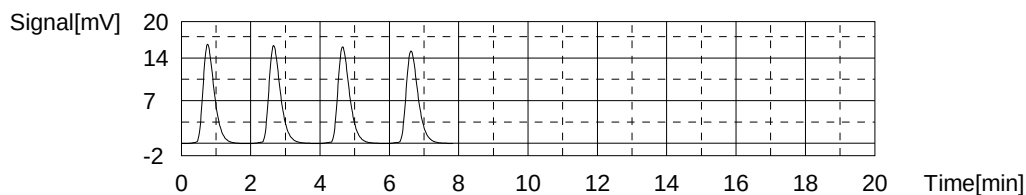
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:9.355ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.57	9.300ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 01:28:35 PM
2	38.10	9.431ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 01:30:46 PM
3	38.24	9.466ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 01:32:56 PM
4	37.25	9.221ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 01:35:07 PM

Mean Area 37.79
Mean Conc. 9.355ppm



Sample

Sample Name: 280-92819-c-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

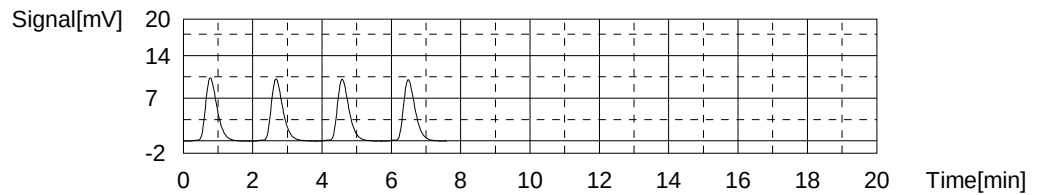
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:5.992ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	24.49	6.056ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 01:43:23 PM
2	24.32	6.014ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 01:45:29 PM
3	24.15	5.972ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 01:47:35 PM
4	23.97	5.927ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 01:49:41 PM

Mean Area 24.23
Mean Conc. 5.992ppm



Sample

Sample Name: 280-92819-c-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

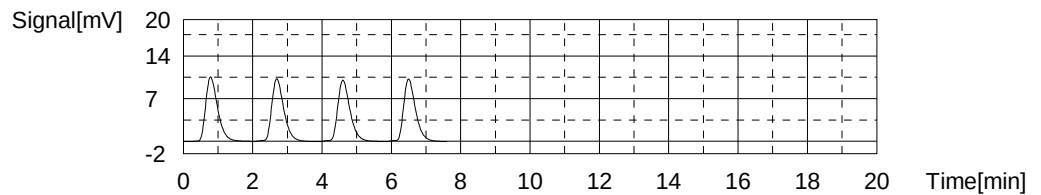
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:6.241ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	25.66	6.346ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 01:57:57 PM
2	25.35	6.270ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:00:03 PM
3	25.12	6.213ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:02:09 PM
4	24.81	6.136ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:04:15 PM

Mean Area 25.24
Mean Conc. 6.241ppm



Sample

Sample Name: 280-92819-c-3
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

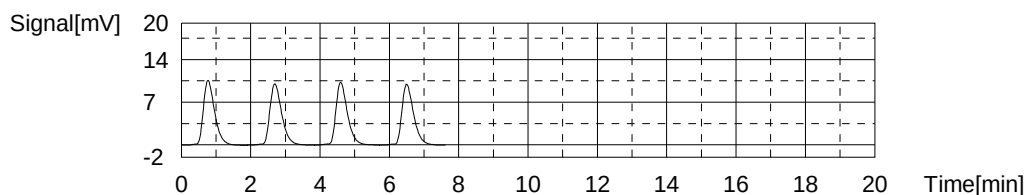
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:5.959ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	24.42	6.039ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:12:31 PM
2	24.29	6.007ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:14:38 PM
3	23.99	5.932ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:16:44 PM
4	23.69	5.858ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:18:50 PM

Mean Area 24.10
Mean Conc. 5.959ppm



Sample

Sample Name: 280-92819-c-4
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

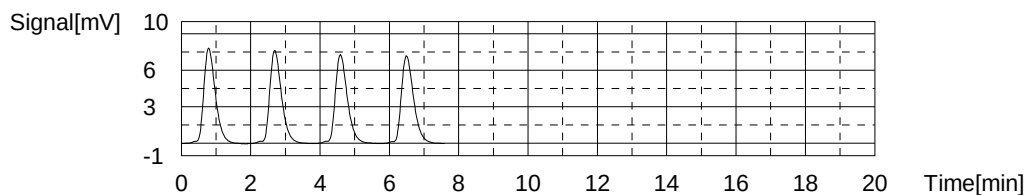
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.477ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.48	4.566ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:27:06 PM
2	18.33	4.529ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:29:12 PM
3	17.86	4.412ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:31:18 PM
4	17.82	4.402ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:33:24 PM

Mean Area 18.12
Mean Conc. 4.477ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

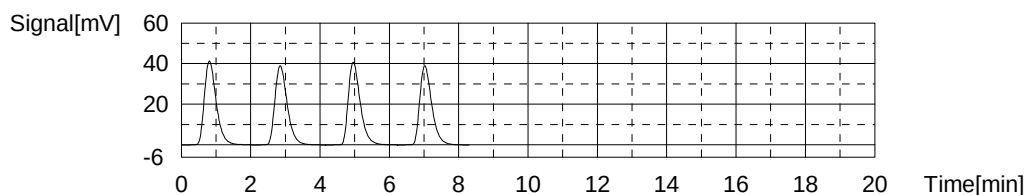
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.28ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.40	24.63ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:41:48 PM
2	98.07	24.30ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:44:08 PM
3	99.03	24.54ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:46:23 PM
4	95.38	23.64ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:48:40 PM

Mean Area 97.97
Mean Conc. 24.28ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

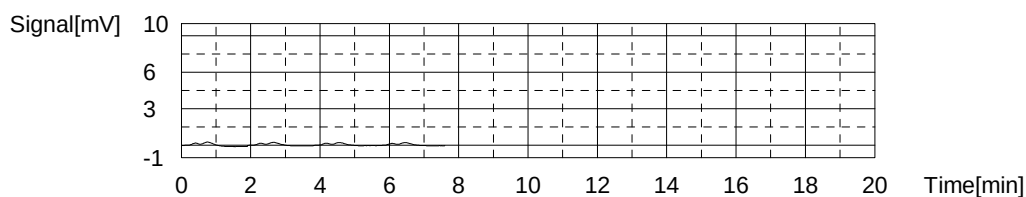
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1731ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8600	0.1963ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:56:56 PM
2	0.8029	0.1822ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 02:59:02 PM
3	0.6987	0.1563ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:01:08 PM
4	0.7040	0.1576ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:03:14 PM

Mean Area 0.7664
Mean Conc. 0.1731ppm



Sample

Sample Name: 280-92819-b-5
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

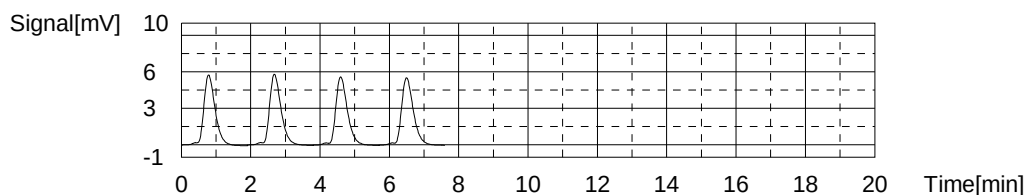
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.271ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.11	3.234ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:11:30 PM
2	13.51	3.333ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:13:36 PM
3	13.23	3.264ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:15:42 PM
4	13.19	3.254ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:17:48 PM

Mean Area 13.26
Mean Conc. 3.271ppm



Sample

Sample Name: 280-92819-b-6
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

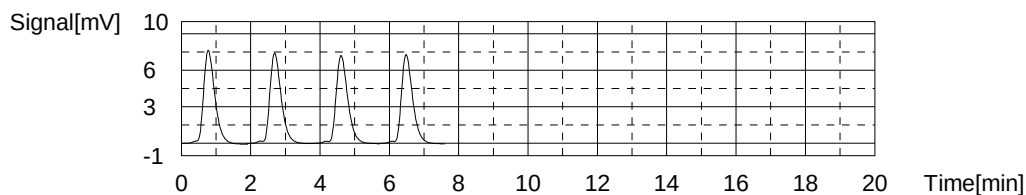
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.212ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.47	4.315ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:26:04 PM
2	17.04	4.209ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:28:10 PM
3	17.06	4.214ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:30:16 PM
4	16.64	4.110ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:32:22 PM

Mean Area 17.05
Mean Conc. 4.212ppm



Sample

Sample Name: 280-92819-b-7
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

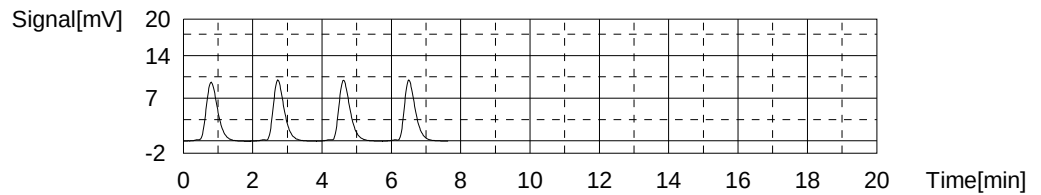
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:5.598ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.69	5.610ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:40:40 PM
2	22.56	5.578ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:42:46 PM
3	23.04	5.697ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:44:52 PM
4	22.28	5.508ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:46:58 PM

Mean Area 22.64
Mean Conc. 5.598ppm



Sample

Sample Name: 280-92824-d-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

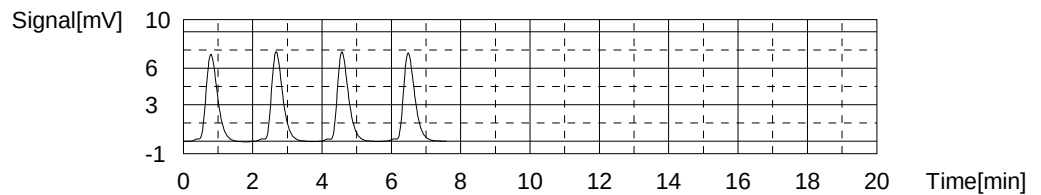
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.155ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.92	4.179ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:55:14 PM
2	16.85	4.162ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:57:20 PM
3	16.81	4.152ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 03:59:26 PM
4	16.72	4.129ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 04:01:32 PM

Mean Area 16.83
Mean Conc. 4.155ppm



Sample

Sample Name: 280-92824-c-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

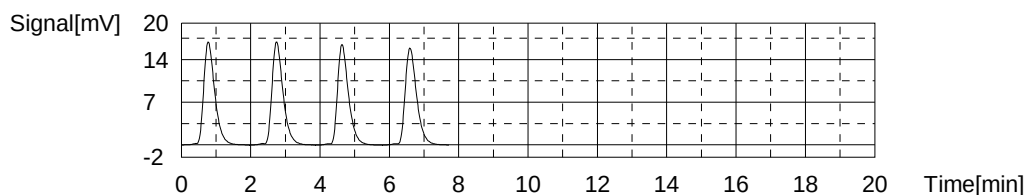
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:9.285ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.91	9.384ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 04:09:52 PM
2	38.22	9.461ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 04:11:58 PM
3	36.89	9.131ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 04:14:06 PM
4	37.01	9.161ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 04:16:13 PM

Mean Area 37.51
Mean Conc. 9.285ppm



Sample

Sample Name: 280-92859-j-4
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

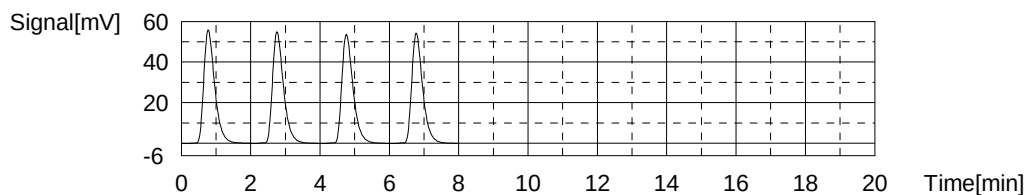
Type	Anal.	Dil.	Result
Unknown	NPOC	5.000	NPOC:152.1ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	124.0	153.7ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 04:24:34 PM
2	123.2	152.7ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 04:26:46 PM
3	122.8	152.2ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 04:28:59 PM
4	120.8	149.7ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 04:31:09 PM

Mean Area 122.7
Mean Conc. 152.1ppm



Sample

Sample Name: MS 280-92859-j-4
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

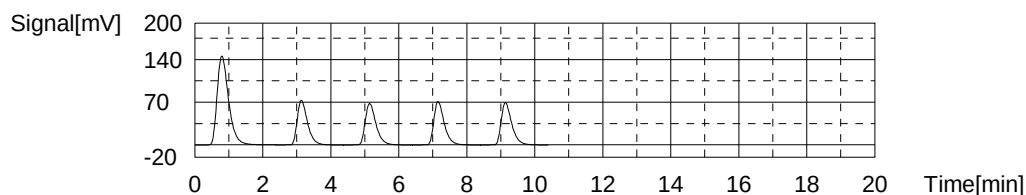
Type	Anal.	Dil.	Result
Unknown	NPOC	5.000	NPOC:416.2ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	347.9	431.3ppm	50uL	1	R	1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 04:40:04 PM
2	157.3	423.9ppm	23uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 04:42:15 PM
3	152.9	412.1ppm	23uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 04:44:29 PM
4	154.3	415.8ppm	23uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 04:46:40 PM
5	153.2	412.9ppm	23uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 04:48:53 PM

Mean Area 154.4
Mean Conc. 416.2ppm



Sample

Sample Name: MSD 280-92859-j-4
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

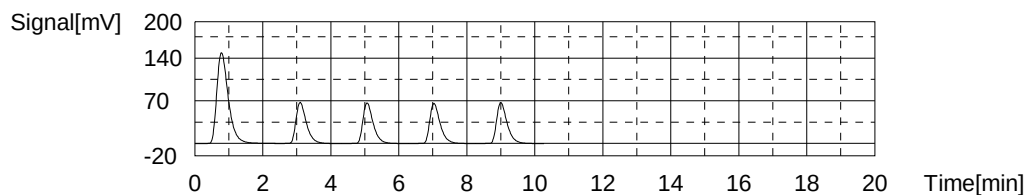
Type	Anal.	Dil.	Result
Unknown	NPOC	5.000	NPOC:407.8ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	355.3	440.5ppm	50uL	1	R	1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 04:57:35 PM
2	146.8	413.6ppm	22uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 04:59:45 PM
3	142.8	402.3ppm	22uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:01:55 PM
4	142.3	400.9ppm	22uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:04:05 PM
5	147.0	414.2ppm	22uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:06:18 PM

Mean Area 144.7
Mean Conc. 407.8ppm



Sample

Sample Name: 280-92859-j-5
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

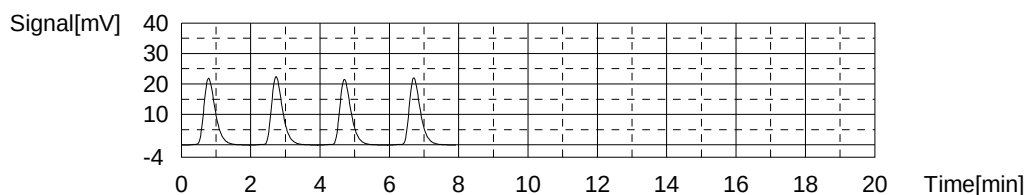
Type	Anal.	Dil.	Result
Unknown	NPOC	5.000	NPOC:62.62ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	50.89	63.02ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:14:36 PM
2	51.39	63.64ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:16:46 PM
3	49.80	61.66ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:18:59 PM
4	50.20	62.16ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:21:10 PM

Mean Area 50.57
Mean Conc. 62.62ppm



Sample

Sample Name: 280-92871-e-1
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

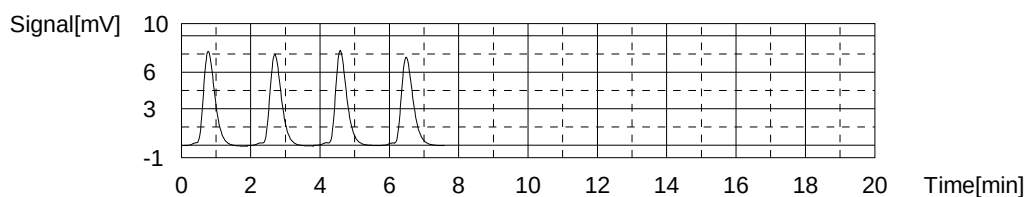
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.421ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.16	4.487ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:29:26 PM
2	17.87	4.415ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:31:32 PM
3	18.05	4.459ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:33:38 PM
4	17.51	4.325ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:35:44 PM

Mean Area 17.90
Mean Conc. 4.421ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

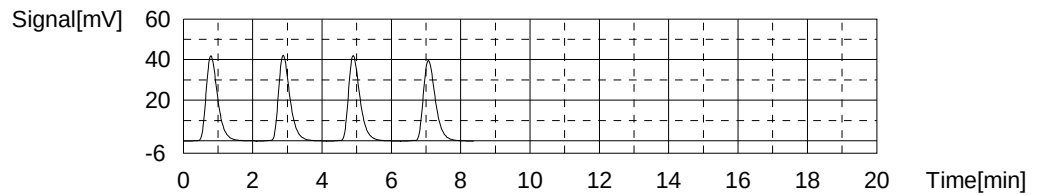
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.33ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.37	24.38ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:44:12 PM
2	98.55	24.42ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:46:25 PM
3	98.30	24.36ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:48:46 PM
4	97.42	24.14ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 05:51:04 PM

Mean Area 98.16
Mean Conc. 24.33ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

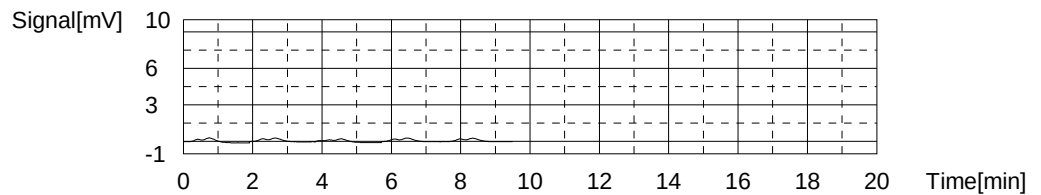
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2260ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.034	0.2395ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 05:59:20 PM
2	0.9657	0.2225ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:01:26 PM
3	0.2442	0.04362ppm	50uL	1	E	1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:03:42 PM
4	0.9724	0.2242ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:05:48 PM
5	0.9461	0.2177ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:07:54 PM

Mean Area 0.9796
Mean Conc. 0.2260ppm



Sample

Sample Name: 280-92871-e-2
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

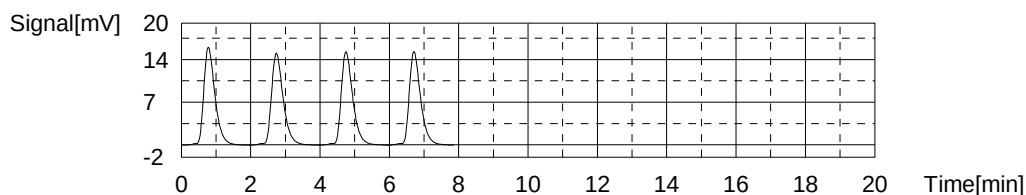
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:8.871ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.46	9.025ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:16:12 PM
2	35.85	8.873ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:18:25 PM
3	35.83	8.869ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:20:35 PM
4	35.22	8.717ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:22:42 PM

Mean Area 35.84
Mean Conc. 8.871ppm



Sample

Sample Name: 280-92871-e-3
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

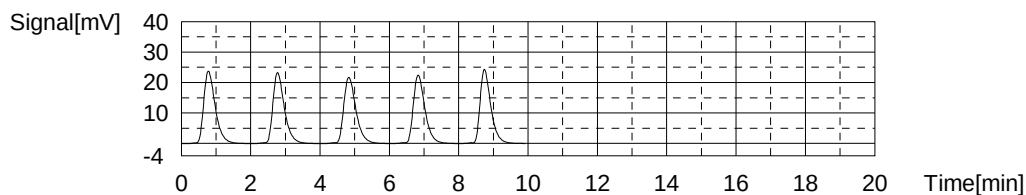
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:13.33ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	55.97	13.86ppm	50uL	1	E	1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:31:04 PM
2	54.60	13.52ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:33:18 PM
3	54.11	13.40ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:35:30 PM
4	53.25	13.19ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:37:39 PM
5	53.37	13.22ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:39:47 PM

Mean Area 53.83
Mean Conc. 13.33ppm



Sample

Sample Name: 280-92871-e-4
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

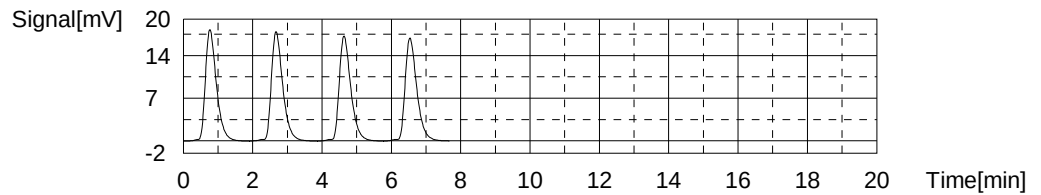
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:10.10ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	41.06	10.17ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:48:02 PM
2	41.48	10.27ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:50:11 PM
3	40.44	10.01ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:52:17 PM
4	40.15	9.940ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/12/2017 06:54:24 PM

Mean Area 40.78
Mean Conc. 10.10ppm



Sample

Sample Name: 280-92871-e-5
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

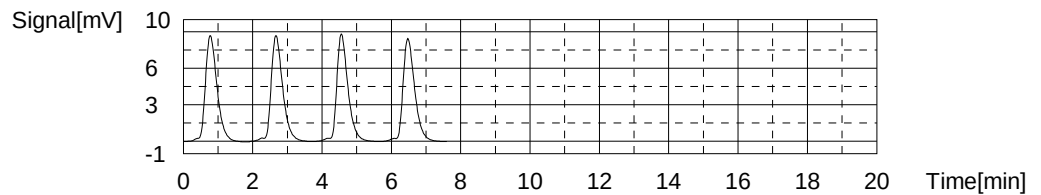
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.999ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.52	5.072ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:03:01 PM
2	20.33	5.025ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:05:07 PM
3	20.03	4.950ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:07:13 PM
4	20.03	4.950ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:09:19 PM

Mean Area 20.23
Mean Conc. 4.999ppm



Sample

Sample Name: 280-92871-e-6
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

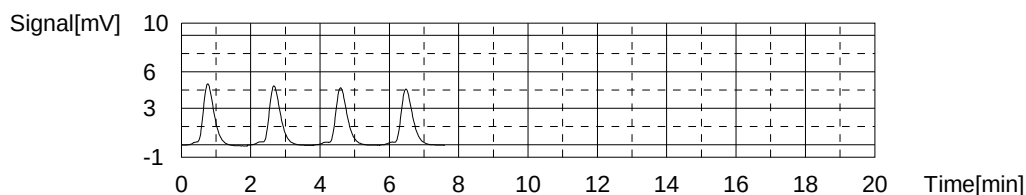
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.772ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.35	2.798ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:17:36 PM
2	11.43	2.818ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:19:42 PM
3	11.26	2.775ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:21:48 PM
4	10.94	2.696ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:23:54 PM

Mean Area 11.25
Mean Conc. 2.772ppm



Sample

Sample Name: LCS
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

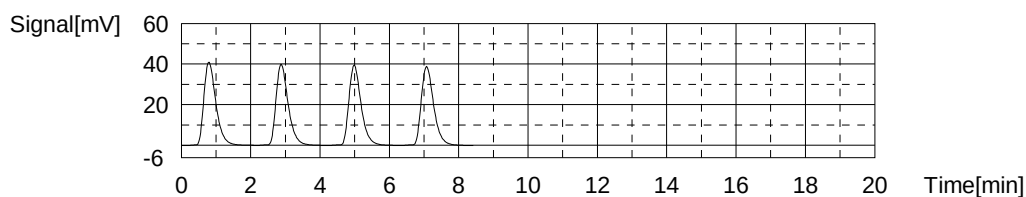
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.51ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	100.0	24.78ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:32:21 PM
2	99.33	24.62ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:34:39 PM
3	98.02	24.29ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:36:56 PM
4	98.31	24.36ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:39:18 PM

Mean Area 98.92
Mean Conc. 24.51ppm



Sample

Sample Name: MB
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

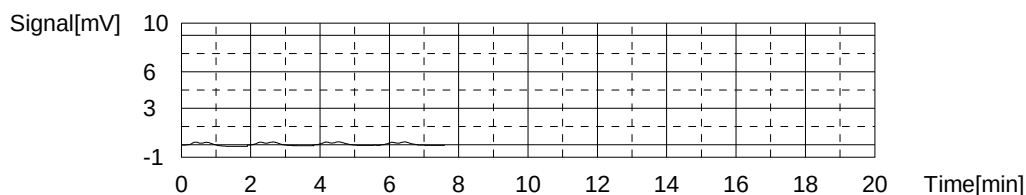
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2133ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8528	0.1946ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:47:35 PM
2	0.9787	0.2258ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:49:41 PM
3	0.9759	0.2251ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:51:47 PM
4	0.9068	0.2079ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 07:53:53 PM

Mean Area 0.9286
Mean Conc. 0.2133ppm



Sample

Sample Name: TIC
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

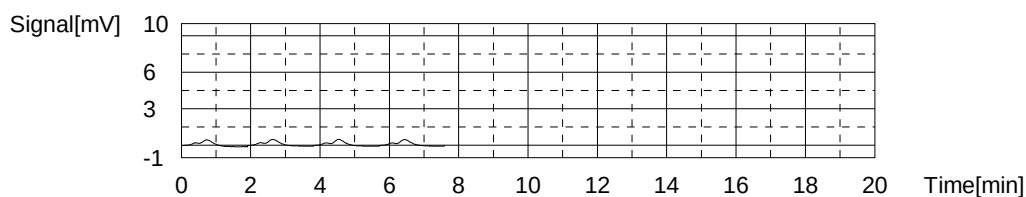
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3279ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.306	0.3069ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:02:10 PM
2	1.496	0.3541ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:04:16 PM
3	1.399	0.3300ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:06:22 PM
4	1.361	0.3206ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:08:28 PM

Mean Area 1.391
Mean Conc. 0.3279ppm



Sample

Sample Name: 280-92888-e-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

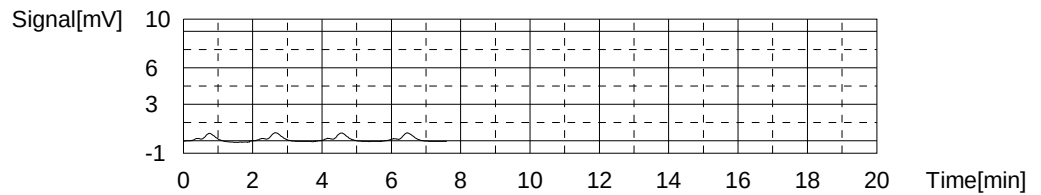
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4250ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.700	0.4046ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:16:45 PM
2	1.821	0.4347ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:18:51 PM
3	1.787	0.4262ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:20:57 PM
4	1.821	0.4347ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:23:03 PM

Mean Area 1.782
Mean Conc. 0.4250ppm



Sample

Sample Name: 280-92888-g-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

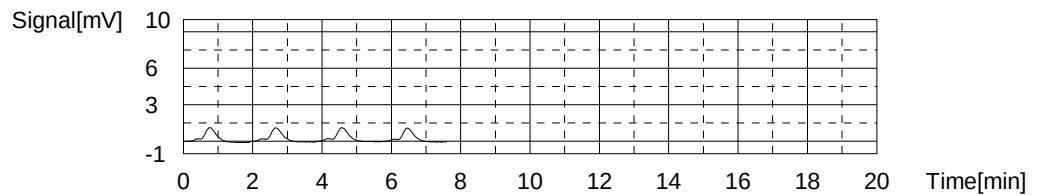
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.6794ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.797	0.6767ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:31:20 PM
2	2.818	0.6819ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:33:26 PM
3	2.899	0.7020ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:35:32 PM
4	2.717	0.6569ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:37:38 PM

Mean Area 2.808
Mean Conc. 0.6794ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

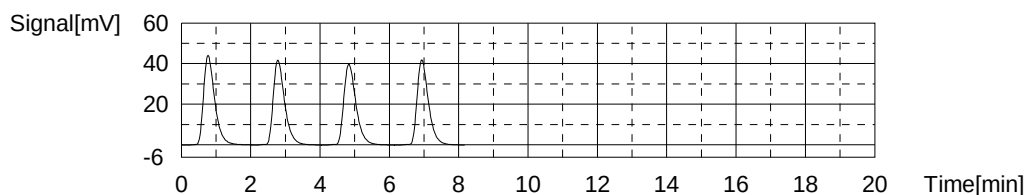
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.36ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.95	24.77ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:46:02 PM
2	97.49	24.16ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:48:15 PM
3	98.63	24.44ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:50:34 PM
4	97.10	24.06ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 08:52:47 PM

Mean Area 98.29
Mean Conc. 24.36ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

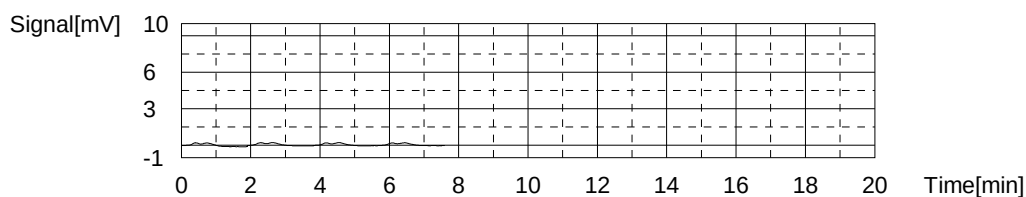
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1915ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8257	0.1878ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:01:04 PM
2	0.9008	0.2065ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:03:10 PM
3	0.8359	0.1904ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:05:16 PM
4	0.7990	0.1812ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:07:22 PM

Mean Area 0.8404
Mean Conc. 0.1915ppm



Sample

Sample Name: MS 280-92888-g-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

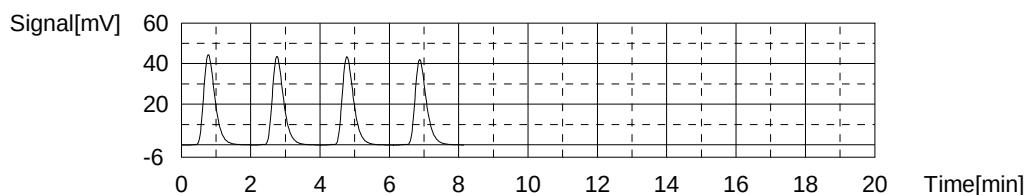
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.92ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	102.4	25.38ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:15:44 PM
2	100.5	24.91ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:17:57 PM
3	101.4	25.13ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:20:15 PM
4	97.87	24.25ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:22:30 PM

Mean Area 100.5
Mean Conc. 24.92ppm



Sample

Sample Name: MSD 280-92888-g-2
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

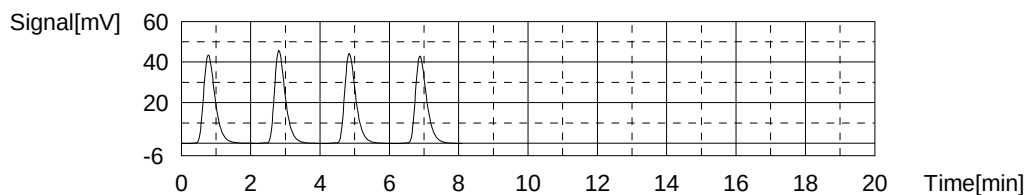
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.96ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	101.6	25.18ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:30:56 PM
2	101.8	25.23ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:33:09 PM
3	100.9	25.01ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:35:24 PM
4	98.59	24.43ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:37:35 PM

Mean Area 100.7
Mean Conc. 24.96ppm



Sample

Sample Name: 280-92888-e-3
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

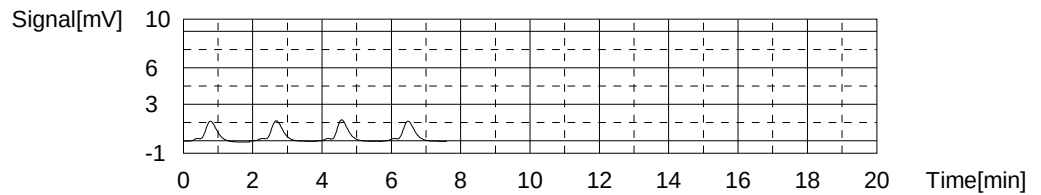
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.007ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.089	0.9971ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:45:52 PM
2	4.185	1.021ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:47:58 PM
3	4.212	1.028ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:50:04 PM
4	4.034	0.9835ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 09:52:10 PM

Mean Area 4.130
Mean Conc. 1.007ppm



Sample

Sample Name: 280-92888-e-4
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

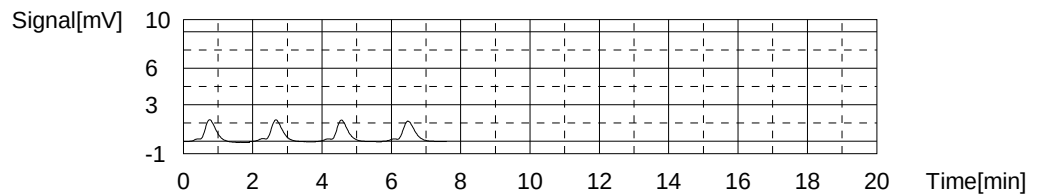
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.038ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.294	1.048ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:00:27 PM
2	4.364	1.065ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:02:33 PM
3	4.176	1.019ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:04:39 PM
4	4.185	1.021ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:06:45 PM

Mean Area 4.255
Mean Conc. 1.038ppm



Sample

Sample Name: 280-92888-e-5
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

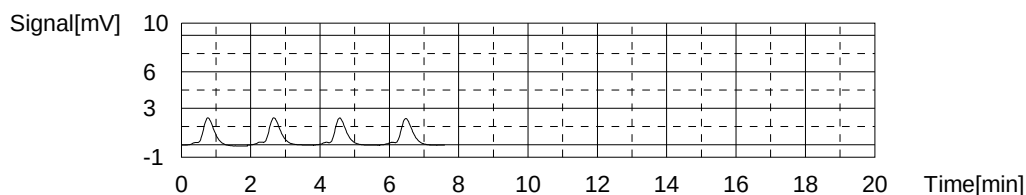
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.315ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.285	1.294ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:15:02 PM
2	5.456	1.336ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:17:08 PM
3	5.383	1.318ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:19:14 PM
4	5.352	1.310ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:21:20 PM

Mean Area 5.369
Mean Conc. 1.315ppm



Sample

Sample Name: 280-92888-e-6
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

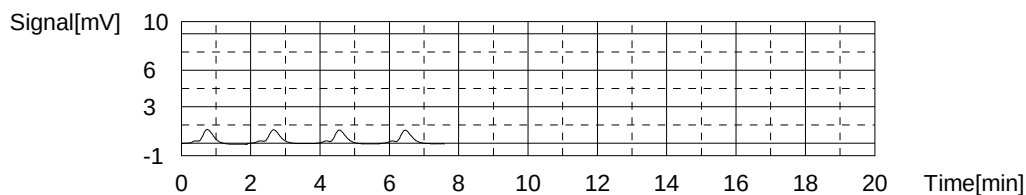
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.6759ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.752	0.6655ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:29:37 PM
2	2.864	0.6933ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:31:43 PM
3	2.800	0.6774ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:33:49 PM
4	2.759	0.6673ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:35:55 PM

Mean Area 2.794
Mean Conc. 0.6759ppm



Sample

Sample Name: 280-92888-e-7
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

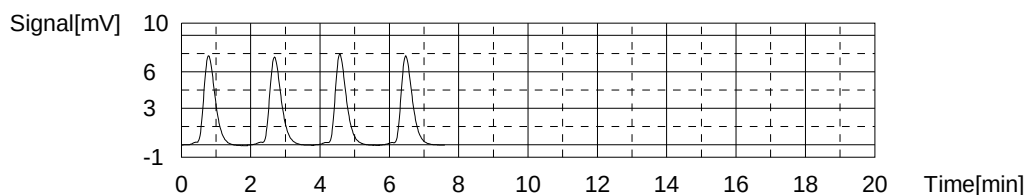
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.240ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.20	4.248ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:44:12 PM
2	17.27	4.266ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:46:18 PM
3	17.23	4.256ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:48:24 PM
4	16.96	4.189ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:50:30 PM

Mean Area 17.16
Mean Conc. 4.240ppm



Sample

Sample Name: 280-92888-e-8
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

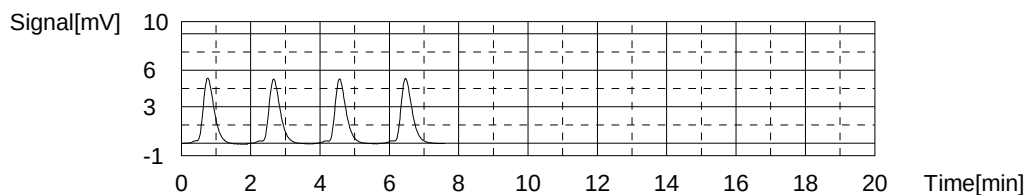
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.986ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.01	2.961ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 10:58:47 PM
2	12.24	3.018ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:00:53 PM
3	12.08	2.979ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:02:59 PM
4	12.11	2.986ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:05:05 PM

Mean Area 12.11
Mean Conc. 2.986ppm



Sample

Sample Name: 280-92896-a-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

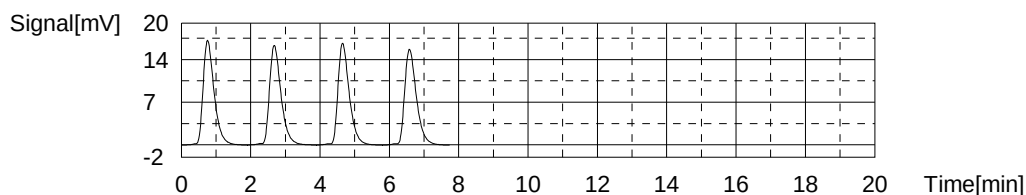
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:9.433ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.35	9.493ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:13:22 PM
2	38.32	9.486ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:15:33 PM
3	38.32	9.486ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:17:40 PM
4	37.43	9.265ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:19:48 PM

Mean Area 38.11
Mean Conc. 9.433ppm



Sample

Sample Name: 280-92896-a-2
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

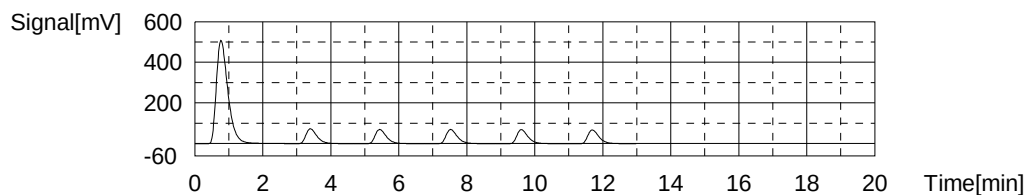
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:281.2ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1216	301.5ppm	50uL	1	R	1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:28:49 PM
2	169.7	294.5ppm	50uL	7	E	1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:36:03 PM
3	165.0	286.3ppm	50uL	7		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:38:20 PM
4	164.3	285.1ppm	50uL	7		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:40:37 PM
5	161.0	279.4ppm	50uL	7		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:42:54 PM
6	158.0	274.2ppm	50uL	7		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:45:10 PM

Mean Area 162.1
Mean Conc. 281.2ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

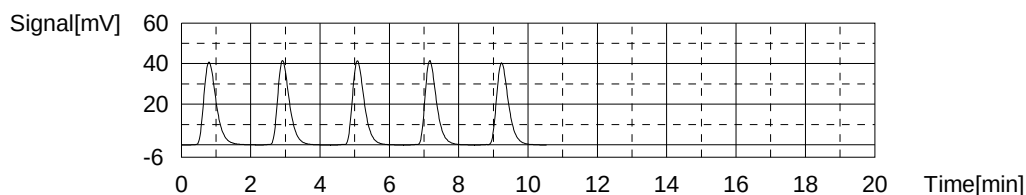
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.59ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	102.9	25.50ppm	50uL	1	E	1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:53:40 PM
2	100.3	24.86ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:56:01 PM
3	100.1	24.81ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/12/2017 11:58:19 PM
4	97.56	24.18ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 12:00:35 AM
5	98.95	24.52ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 12:02:53 AM

Mean Area 99.23
Mean Conc. 24.59ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

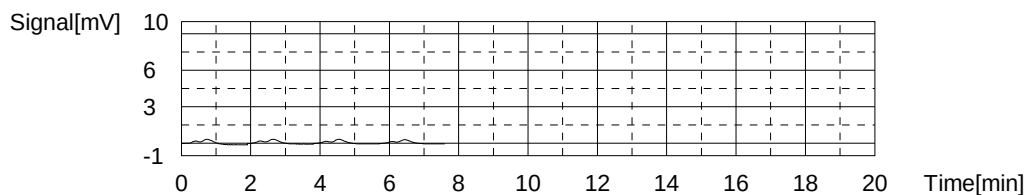
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2307ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.055	0.2447ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:11:11 AM
2	1.094	0.2544ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:13:18 AM
3	0.9610	0.2214ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:15:24 AM
4	0.8846	0.2024ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:17:31 AM

Mean Area 0.9987
Mean Conc. 0.2307ppm



Sample

Sample Name: 280-92896-a-3
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

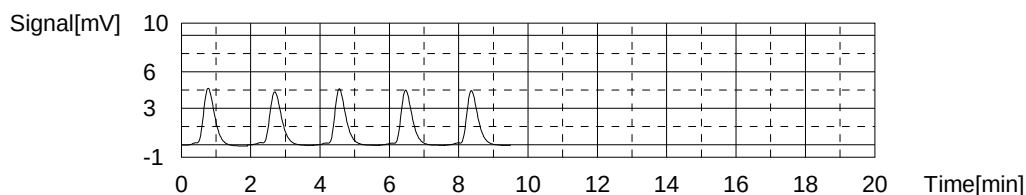
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.572ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.79	2.659ppm	50uL	1	E	1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:25:50 AM
2	10.66	2.627ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:27:57 AM
3	10.48	2.582ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:30:03 AM
4	10.29	2.535ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:32:10 AM
5	10.33	2.545ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:34:18 AM

Mean Area 10.44
Mean Conc. 2.572ppm



Sample

Sample Name: 280-92896-a-4
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

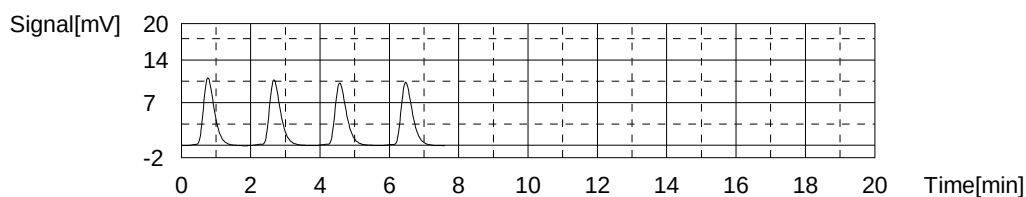
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:6.071ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	24.98	6.178ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:42:34 AM
2	24.80	6.133ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:44:42 AM
3	24.16	5.974ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:46:49 AM
4	24.25	5.997ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:48:56 AM

Mean Area 24.55
Mean Conc. 6.071ppm



Sample

Sample Name: 280-92896-a-5
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

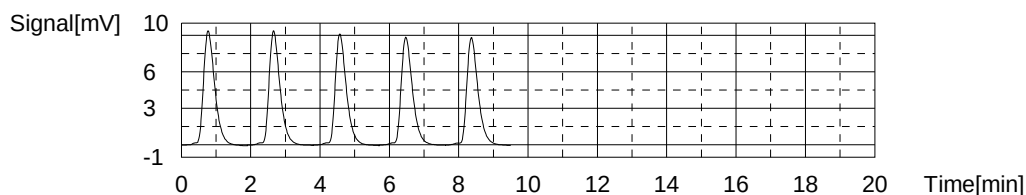
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:5.061ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.45	5.302ppm	50uL	1	E	1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:57:15 AM
2	20.77	5.134ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 12:59:20 AM
3	20.57	5.084ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 01:01:26 AM
4	20.39	5.040ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 01:03:33 AM
5	20.17	4.985ppm	50uL	1		1-50 PPM TOC.2016 11 28 17 47 06.cal	01/13/2017 01:05:38 AM

Mean Area 20.48
Mean Conc. 5.061ppm



Sample

Sample Name: 280-92896-a-6
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

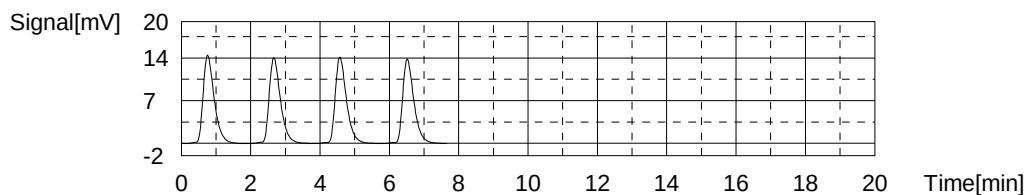
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:7.969ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	32.70	8.092ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 01:13:55 AM
2	32.24	7.978ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 01:16:01 AM
3	32.44	8.028ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 01:18:10 AM
4	31.43	7.777ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 01:20:16 AM

Mean Area 32.20
Mean Conc. 7.969ppm



Sample

Sample Name: MS 280-92896-a-6
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

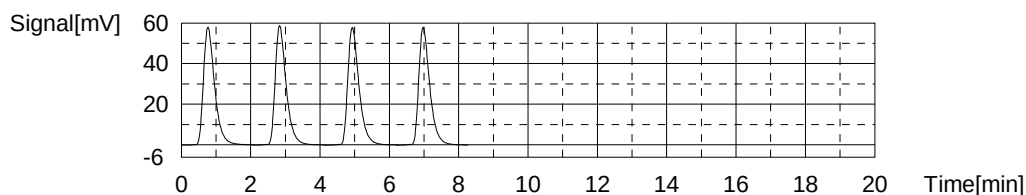
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:32.40ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	130.9	32.44ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 01:28:44 AM
2	131.0	32.47ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 01:31:02 AM
3	131.9	32.69ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 01:33:17 AM
4	129.1	32.00ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 01:35:32 AM

Mean Area 130.7
Mean Conc. 32.40ppm



Sample

Sample Name: MSD 280-92896-a-6
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

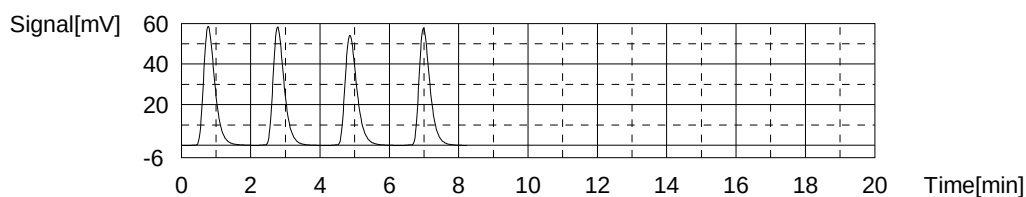
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:32.77ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	134.9	33.44ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 01:43:56 AM
2	133.0	32.97ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 01:46:13 AM
3	131.5	32.59ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 01:48:33 AM
4	129.4	32.07ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 01:50:46 AM

Mean Area 132.2
Mean Conc. 32.77ppm



Sample

Sample Name: 280-92896-a-7
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

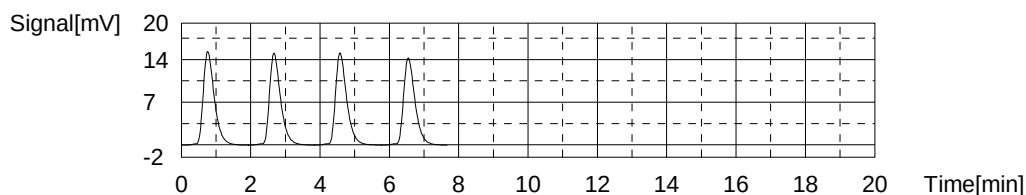
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:8.418ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.61	8.566ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 01:59:05 AM
2	33.96	8.405ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:01:11 AM
3	34.38	8.509ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:03:20 AM
4	33.10	8.192ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:05:26 AM

Mean Area 34.01
Mean Conc. 8.418ppm



Sample

Sample Name: 280-92897-d-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

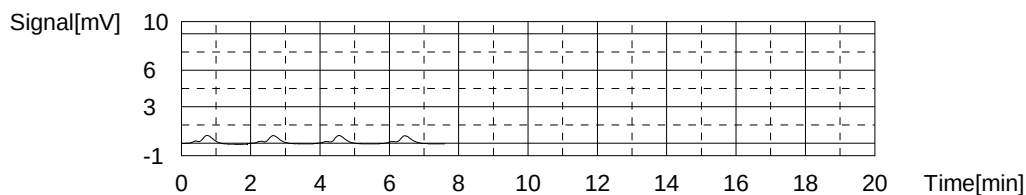
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3887ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.629	0.3870ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:13:44 AM
2	1.624	0.3858ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:15:50 AM
3	1.628	0.3868ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:17:56 AM
4	1.661	0.3950ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:20:02 AM

Mean Area 1.636
Mean Conc. 0.3887ppm



Sample

Sample Name: 280-92897-E-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

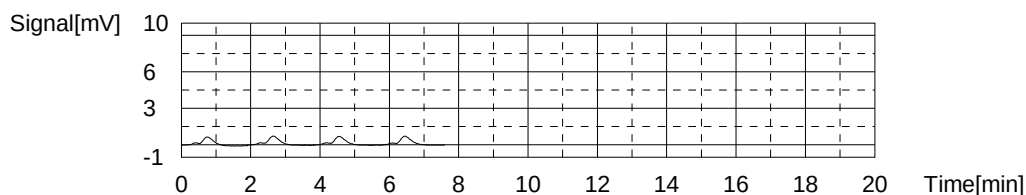
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4144ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.637	0.3890ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:28:20 AM
2	1.763	0.4203ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:30:26 AM
3	1.792	0.4275ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:32:32 AM
4	1.766	0.4210ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:34:38 AM

Mean Area 1.740
Mean Conc. 0.4144ppm



Sample

Sample Name: 320-24880-n-1
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

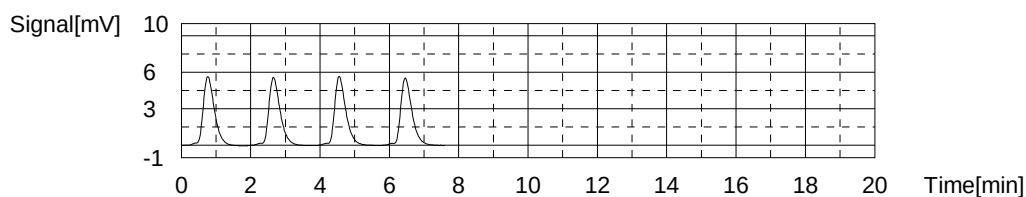
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.170ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.97	3.199ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:42:56 AM
2	12.87	3.175ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:45:02 AM
3	12.94	3.192ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:47:08 AM
4	12.63	3.115ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:49:14 AM

Mean Area 12.85
Mean Conc. 3.170ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

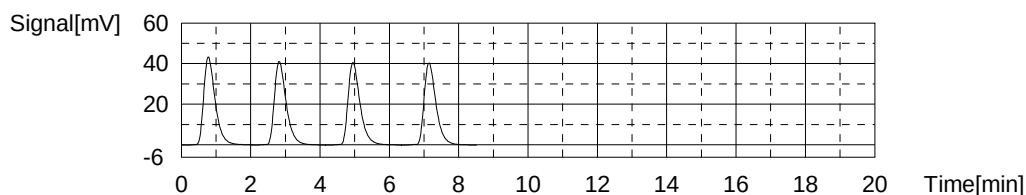
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.52ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	100.5	24.91ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 02:57:40 AM
2	99.08	24.55ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:00:00 AM
3	98.82	24.49ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:02:23 AM
4	97.44	24.15ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:04:45 AM

Mean Area 98.96
Mean Conc. 24.52ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

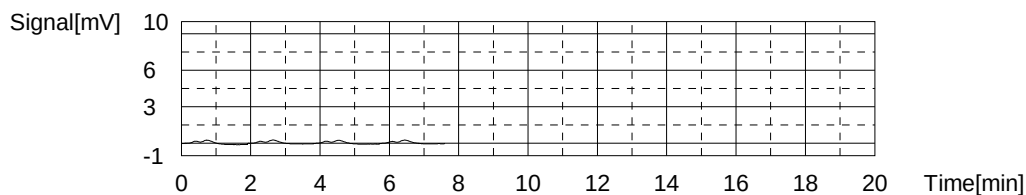
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1858ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8605	0.1965ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:13:03 AM
2	0.8125	0.1846ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:15:09 AM
3	0.8124	0.1845ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:17:15 AM
4	0.7848	0.1777ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:19:21 AM

Mean Area 0.8176
Mean Conc. 0.1858ppm



Sample

Sample Name: 320-24880-n-2
Sample ID:
Origin: TOC .met
Status: Completed
Chk. Result

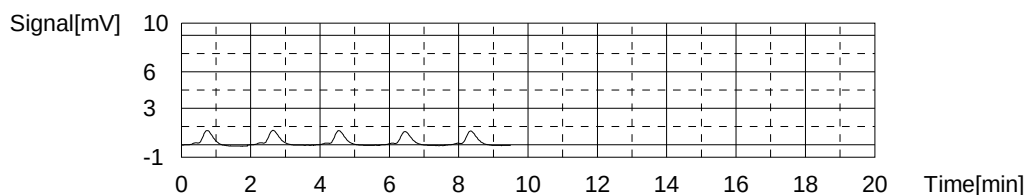
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.6699ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.806	0.6789ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:27:39 AM
2	2.870	0.6948ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:29:45 AM
3	2.711	0.6554ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:31:51 AM
4	2.567	0.6197ppm	50uL	1	E	1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:33:57 AM
5	2.691	0.6504ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:36:03 AM

Mean Area 2.770
Mean Conc. 0.6699ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

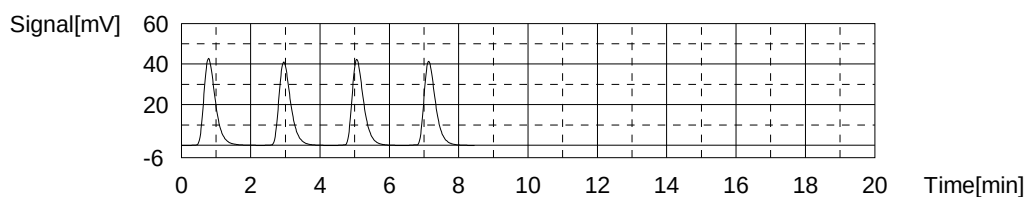
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.59ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	100.7	24.96ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:44:36 AM
2	99.17	24.58ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:46:55 AM
3	99.83	24.74ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:49:11 AM
4	97.15	24.08ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:51:29 AM

Mean Area 99.21
Mean Conc. 24.59ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

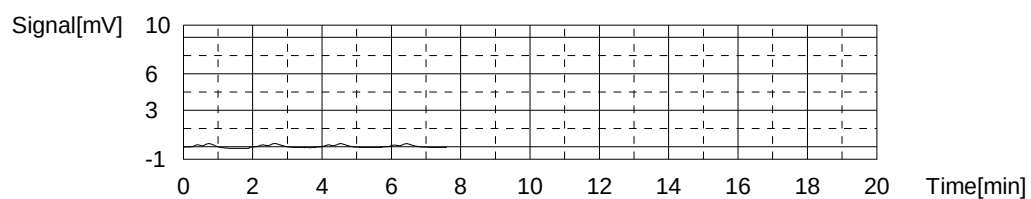
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1882ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9070	0.2080ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 03:59:47 AM
2	0.8386	0.1910ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 04:01:53 AM
3	0.8052	0.1827ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 04:03:59 AM
4	0.7582	0.1711ppm	50uL	1		1-50 PPM TOC.2016_11_28_17_47_06.cal	01/13/2017 04:06:05 AM

Mean Area 0.8273
Mean Conc. 0.1882ppm



Date of Creation 11:15:53 AM 10/28/2005
User DEANN
System TOC-VCSH

Cal. Curve

Sample Name: cal
Sample ID: CAL
Cal. Curve: 1-50 PPM TOC.2016_11_28_17_47_06.cal
Status Completed
Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.607	50uL	1	*****		11/28/2016 05:55:07 F
2	1.527	50uL	1	*****		11/28/2016 05:57:14 F

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 1.567
SD Area 0.05657
CV Area 3.61%
Vial 1

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.616	50uL	1	*****		11/28/2016 06:05:33 F
2	4.869	50uL	1	*****	E	11/28/2016 06:07:38 F
3	4.582	50uL	1	*****		11/28/2016 06:09:44 F

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 4.599
SD Area 0.02404
CV Area 0.52%
Vial 2

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	19.17	50uL	1	*****	E	11/28/2016 06:17:58 F
2	19.78	50uL	1	*****		11/28/2016 06:20:05 F
3	19.58	50uL	1	*****		11/28/2016 06:22:11 F

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 19.68
SD Area 0.1414
CV Area 0.72%
Vial 3

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	38.38	50uL	1	*****		11/28/2016 06:30:24 F
2	39.15	50uL	1	*****		11/28/2016 06:32:32 F

Acid Add. 1.500%
 Sp. Time 90.00sec
 Mean Area 38.77
 SD Area 0.5445
 CV Area 1.40%
 Vial 4

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	100.7	50uL	1	*****		11/28/2016 06:41:00 F
2	100.3	50uL	1	*****		11/28/2016 06:43:14 F

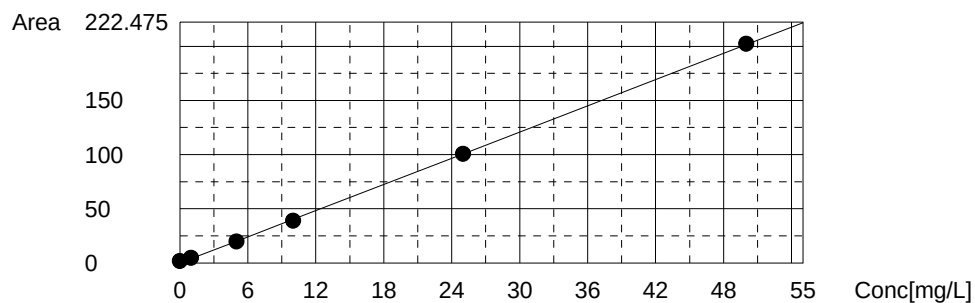
Acid Add. 1.500%
 Sp. Time 90.00sec
 Mean Area 100.5
 SD Area 0.2828
 CV Area 0.28%
 Vial 5

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	200.8	50uL	1	*****		11/28/2016 06:51:45 F
2	203.7	50uL	1	*****		11/28/2016 06:54:03 F

Acid Add. 1.500%
 Sp. Time 90.00sec
 Mean Area 202.3
 SD Area 2.051
 CV Area 1.01%
 Vial 6

Slope: 4.032
 Intercept 0.06829
 r^2 0.9998
 r 0.9999
 Zero Shift No



Subcontract Data

Shipping and Receiving Documents

Updated Sample IDs
Mike Poligone 1/12/2017
M.A.

CHAIN OF CUSTODY RECORD

COC NO.:

301 Laboratory Road, Oak Ridge, Tennessee 37831(865) 482-9031

PROJECT NAME: Schenectady				REQUESTED PARAMETERS												LABORATORY NAME: Test America			
PROJECT NUMBER: 314561.00.04.8002.940				No. of Bottles/ Vials:												LABORATORY ADDRESS: 4955 Yarrow Street Arvada, CO 80002 POC: Donna Rydberg			
PROJECT MANAGER: Mike Poligone Remove doaned line																PHONE NO: 303-736-0100			
Sampler (Signature) Michael Deyette (Printed Name) Michael Deyette																			
Sample ID	Date Collected	Time Collected	Matrix	VOC	TOC													OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
6 MW-2403	1/9/17	10:50 am	W	X	X														
6 MW-2203	1/9/17	11:50 am	W	X	X														
6 MW-2303	1/9/17	12:45 pm	W	X	X														
6 MW-2603	1/9/17	13:30 pm	W	X	X														
6 MW-2503	1/9/17	14:15 pm	W	X	X														
6 MW-2003	1/9/17	15:00 pm	W	X	X														
6 MW-20 Dup	1/9/17	15:05 pm	W	X	X														
MS	1/9/17	15:10 pm	W	X	+														
MSD	1/9/17	15:15 pm	W	X	+														
Field Blank TB04			W	X															
				TOK 1-9-17															
RELINQUISHED BY: Michael Deyette		Date/Time 1/9/17 4:15 pm	RECEIVED BY: Paul K...		Date/Time 1/11/17 100	TOTAL NUMBER OF CONTAINERS				Cooler Temperature:									
COMPANY NAME: Altech			COMPANY NAME: THD			Cooler ID:				FEDEX NUMBER:									
RECEIVED BY: Tim Knollinger		Date/Time 1-9-17 1615	RELINQUISHED BY:		Date/Time	1 3 - 40 ml Vials, HCL to pH < 2, 4C 2 1 - 250 ml Polyethylene, H2SO4 to pH < 2, 4C 2.8 FR#5 - 0.2 RP 1-11-17 6 MW2003D 6 MW2003MS 6 MW2003MSD													
COMPANY NAME: Test America			COMPANY NAME:																
RELINQUISHED BY: Tim Knollinger		Date/Time 1-10-17 1800	RECEIVED BY:		Date/Time														
COMPANY NAME:			COMPANY NAME:																



280-92896 Chain of Custody

CHAIN OF CUSTODY RECORD

COC NO.:

PROJECT NAME: Schenectady				REQUESTED PARAMETERS																LABORATORY NAME: Test America					
PROJECT NUMBER: 314561.00.04.8002.940																				LABORATORY ADDRESS: 4955 Yarrow Street Arvada, CO 80002 POC: Donna Rydberg					
PROJECT MANAGER: Mike Poligone																				PHONE NO: 303-736-0100					
Sampler (Signature) <i>Michael Deyette</i> (Printed Name) Michael Deyette																									
Sample ID		Date Collected	Time Collected	Matrix	VOC	TOC																	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
6 MW-24	1/9/17	10:50 am	W	X	X																				
6 MW-22	1/9/17	11:50 am	W	X	X																				
6 MW-23	1/9/17	12:45 pm	W	X	X																				
6 MW-26	1/9/17	13:30 pm	W	X	X																				
6 MW-25	1/9/17	14:15 pm	W	X	X																				
6 MW-20	1/9/17	15:00 pm	W	X	X																				
6 MW-20 Dup	1/9/17	15:05 pm	W	X	X																				
MS	1/9/17	15:10 pm	W	X	X																				
MSD	1/9/17	15:15 pm	W	X	X																				
Trip Blank			W	X																					
				TOK 1-9-17																					
RELINQUISHED BY: <i>Michael Deyette</i>		Date/Time 1/9/17	RECEIVED BY: <i>David K...</i>		Date/Time 1/11/17	TOTAL NUMBER OF CONTAINERS:												Cooler Temperature:							
COMPANY NAME: Azttech		Date/Time 4:15 pm	COMPANY NAME: THD		Date/Time 1000	Cooler ID:												FEDEX NUMBER:							
RECEIVED BY: Tim Knollinger		Date/Time 1-9-17	RELINQUISHED BY:		Date/Time	1 3 - 40 ml Vials, HCL to pH < 2, 4C																			
COMPANY NAME: Test America		Date/Time 1615	COMPANY NAME:		Date/Time	2 1 - 250 ml Polyethylene, H2SO4 to pH < 2, 4C																			
RELINQUISHED BY: Tim Knollinger		Date/Time 1-10-17	RECEIVED BY:		Date/Time	2.8 FR#5 -0.2 RP 1-11-17																			
COMPANY NAME:		Date/Time 1800	COMPANY NAME:		Date/Time																				



280-92896 Chain of Custody

THE LEADER IN ENVIRONMENTAL TESTING

280-92896 Chain of Custody

Client Information (Sub Contract Lab)						Lab PM: DeHerrera, Jessica H								COC No: 280-385049.1																							
Client Contact:						Phone:								E-Mail: jessica.deherrera@testamericainc.com								State of Origin: New York								Page: Page 1 of 2							
Shipping/Receiving																																					
Company:						Accreditations Required (See note):								Job #:																							
TestAmerica Laboratories, Inc.						DoD ELAP - A2LA; NELAP - Florida; NELAP - New Hampshire ...								280-92896-1																							
Address:						Due Date Requested:								Analysis Requested								Preservation Codes:															
13715 Rider Trail North,						1/30/2017																A - HCL M - Hexane															
City:						TAT Requested (days):																B - NaOH N - None															
Earth City																						C - Zn Acetate O - AsNaO2															
State, Zip:																						D - Nitric Acid P - Na2O4S															
MO, 63045																						E - NaHSO4 Q - Na2SO3															
Phone:						PO #:																F - MeOH R - Na2S2O3															
314-298-8566(Tel) 314-298-8757(Fax)																						G - Amchlor S - H2SO4															
Email:						WO #:																H - Ascorbic Acid T - TSP Dodecahydrate															
																						I - Ice U - Acetone															
Project Name:						Project #:																J - DI Water V - MCAA															
Schenectady ANGB, NY						28015159																K - EDTA W - pH 4-5															
Site:						SSOW#:																L - EDA Z - other (specify)															
																						Other:															
Sample Identification - Client ID (Lab ID)						Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8260C DOD5/5030C VOCs - TA St. Louis (for NY samples)		Total Number of containers		Special Instructions/Note:															
6MW-24 (280-92896-1)						1/9/17		10:50 Eastern				Water				X				3		DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration															
6MW-22 (280-92896-2)						1/9/17		11:50 Eastern				Water				X				3		DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration															
6MW-23 (280-92896-3)						1/9/17		12:45 Eastern				Water				X				3		DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration															
6MW-26 (280-92896-4)						1/9/17		13:30 Eastern				Water				X				3		DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration															
6MW-25 (280-92896-5)						1/9/17		14:15 Eastern				Water				X				3		DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration															
6MW-20 (280-92896-6)						1/9/17		15:00 Eastern				Water				X				2		DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration															
6MW-20MS (280-92896-6MS)						1/9/17		15:00 Eastern		MS		Water				X				2		DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration															
6MW-20MSD (280-92896-6MSD)						1/9/17		15:00 Eastern		MSD		Water				X				2		DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration															
6MW-20DUP (280-92896-7)						1/9/17		15:05 Eastern				Water				X				3		DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration															
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.																																					
Possible Hazard Identification														Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																							
Unconfirmed														☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months																							
Deliverable Requested: I, II, III, IV, Other (specify)														Primary Deliverable Rank: 4																							
														Special Instructions/QC Requirements:																							
Empty Kit Relinquished by:														Date:																							
Relinquished by:														Date/Time:																							
Relinquished by:														Date/Time:																							
Relinquished by:														Date/Time:																							
Custody Seals Intact: ☒ Yes ☐ No														Custody Seal No.:																							
														Cooler Temperature(s) °C and Other Remarks:																							

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Page 465 of 467

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 280-92896-1

Login Number: 92896

List Source: TestAmerica Denver

List Number: 1

Creator: Pottruff, Reed W

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.	False	Refer to Job Narrative for details.
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 280-92896-1

Login Number: 92896

List Number: 2

Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

List Creation: 01/16/17 09:46 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	3.1
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?	False	
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	