August 14, 2018

Mr. Brian Jankauskas
New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation, Remedial Bureau A
625 Broadway, 11th Floor
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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 Third 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 August 2018**

Dear Mr. Jankauskas,

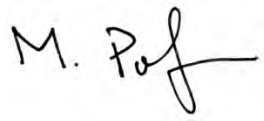
The above-referenced document will be submitted on a compact disc (CD) for your records per Task 9.4 of Task Order 0004.

Leidos was contracted by the Air National Guard (ANG) to perform remedial action at Installation Restoration Program Site 6 at SANGB. This document serves as the Third Semiannual Monitoring Report documenting results from the October 2017 and March 2018 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 865.405.8332 or by email at poligonem@leidos.com. Thank you.

Sincerely,

LEIDOS



Michael Poligone
Project Manager

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FINAL

THIRD 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

August 2018

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FINAL

THIRD 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

August 2018

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

Prepared for
NGB/A4OR
3501 Fetchet Avenue
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Prepared by
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Third 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 Third 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:	**08/10/18**

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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	*Dehalococcoides* sp.
DO	dissolved oxygen
EVO	emulsified vegetable oil
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
RA-O	remedial action-operation
RAO	remedial action objective
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

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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 2017a). The second and third monitoring events were conducted in October 2016 and January 2017, and the sampling results are presented in the *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* (Leidos 2017b). The fourth and fifth monitoring events were conducted in April and July 2017, and the sampling results are presented in the *Second 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* (Leidos 2017c).

This report summarizes the results of the sixth and seventh groundwater monitoring events conducted October 17, 2017, and March 28, 2018, 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 will be conducted at select wells in April 2018 due to exceedances above NYSDEC groundwater standards in multiple monitoring wells. The targeted injection plans are detailed in the current RAWP (Leidos 2016) and FCN-02 (Appendix A).

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. 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).

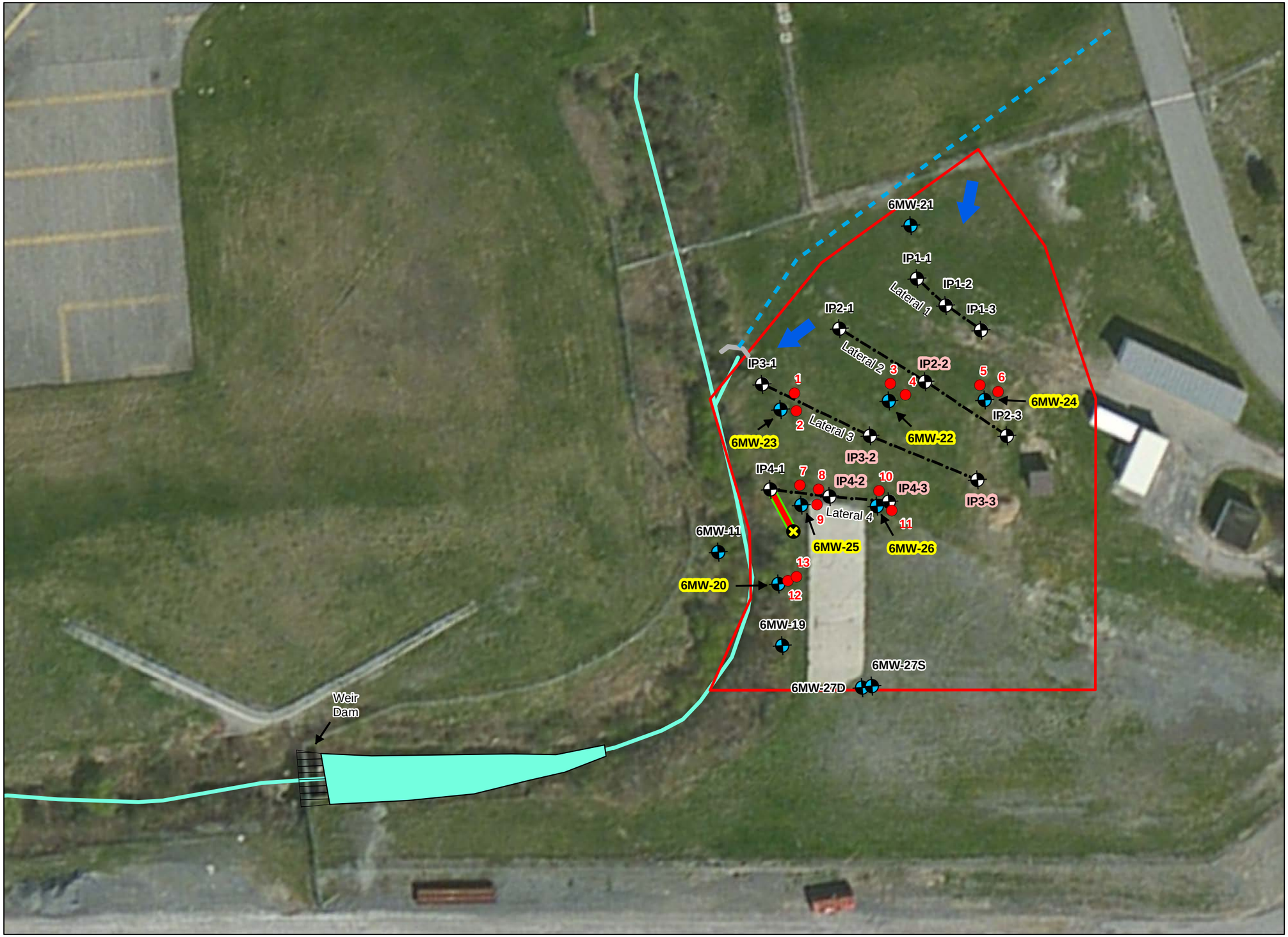
1.4 GROUNDWATER REMEDIAL ACTION OBJECTIVES

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

0 20 40 80 Feet

1 inch = 50 feet

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



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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

PROJECT: \Eastern_IRP\6. GIS Files\Schenectady\Projects\LTM_Rpt_2017Jan\Figure 1-1 Sample Locations For Site 6_11x17.mxd

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 2017a).

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 2017a). Figure 1-2 and Table 3-2 provide 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

NYSDEC CLASS GA GROUNDWATER STANDARDS (6 NYCRR 703.5)	
PCE (µg/L)	5
TCE (µg/L)	5
cis-1,2-DCE (µg/L)	5
VC (µg/L)	2

6MW-21 (3'-8') µg/L

Sample Date	2013 Sep	2014 Aug	2014 Sep	2014 Oct	2014 Dec
PCE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
TCE	0.33 J	1.0	2.9	4.5	0.25 U
cis-1,2-DCE	0.19 J	0.49 J	0.73 J	1.1	0.25 U
VC	0.50 U	0.50U	0.50 U	0.50 U	0.50 U

6MW-24 (4'-9') µg/L

Sample Date	2013 Sep	2014 Aug	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul	2017 Oct	2018 Mar
PCE	0.25 U	0.25 U	1.0 U	1 U	1 U	1 U	1 U	1.0 U	1.0 U
TCE	**12.0**	**10.0**	**5.9**	4.9 J	3.2 J	4.6 J	**6.9**	1.6 J	**6.3**
cis-1,2-DCE	**14.0**	**9.7**	4.8 J	**13**	3.6 J	3 J	4.7 J	3.7 J	2.2 J
VC	0.50 U	0.50 U	1.0 U	**4.8 J**	1.6 J	0.52 J	1.3 J	**9.1**	1.0 U

6MW-23 (4'-9') µg/L

Sample Date	2013 Sep	2014 Aug	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul	2017 Oct	2018 Mar
PCE	**5.9**	**16.0**	3.0 J	0.31 J	0.81 J	1.5 J	1 U	1.0 U	0.80 J
TCE	3.0	**5.4**	1.7 J	0.34 J	0.79 J	1.1 J	0.8 J	1.0 U	0.78 J
cis-1,2-DCE	**18.0**	**18.0**	**13**	1.3 J	0.93 J	0.85 J	2.1 J	1.0 U	1.3 J
VC	**3.2**	**2.0**	1.0 U	**6.4**	1 U	1 U	1.6 J	1.1 J	0.54 J

6MW-25 (4'-9') µg/L

Sample Date	2013 Sep	2014 Sep	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul	2017 Oct	2018 Mar
PCE	4.5	**52.0**	**20**	1 U	1 U	1 U	1 U	1.0 UJ	1.0 U
TCE	**5.0**	**8.1**	**5.8**	1 U	1 U	1 U	1 U	1.0 UJ	1.2 J
cis-1,2-DCE	**220.0**	**36.0**	**58**	0.7 J	1.5 J	1.6 J	**5.8**	2.6 J	3.8 J
VC	**79.0**	0.50 U	**21**	1 U	1 U	1.4 J	**66**	**14 J**	**15**

6MW-26 (4'-9') µg/L

Sample Date	2013 Sep	2014 Aug	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul	2017 Oct	2018 Mar
PCE	2.7	3.2	1.2 J	1 U	1 U	1 U	1 U	1.0 UJ	1.0 U
TCE	3.0	3.1	1.1 J	0.32 J	1 U	0.33 J	0.6 J	1.0 UJ	1.0 U
cis-1,2-DCE	**16.0**	**11.0**	**6.6 J**	2.6 J	2.5 J	1.8 J	2.4 J	2.3 J	1.0 J
VC	2.0	2.3	1.0 U	1 U	1 U	0.88 J	1.8 J	**2.6 J**	0.43 J

6MW-22 (4'-9') µg/L

Sample Date	2014 Dec	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul	2017 Oct	2018 Mar
PCE	**6.5**	3.4 J	1.6 J	**5.2**	4.8 J	1.4 J	1.0 UJ	1.5 J
TCE	**7.0**	3.6 J	1.2 J	2.2 J	1.9 J	1.7 J	1.0 UJ	0.41 J
cis-1,2-DCE	**16.0**	**16**	**36**	**1.6 J**	2.5 J	3.3 J	1.0 UJ	0.81 J
VC	0.50 U	1.0 U	**9.3**	**2.5 J**	**2.3 J**	**2.3 J**	1.0 UJ	1.0 U

6MW-19 (7'-17') µg/L

Sample Date	2013 Sep	2014 Aug	2014 Sep	2014 Oct	2014 Nov	2014 Dec
PCE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
TCE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
cis-1,2-DCE	0.78 J	0.53 J	2.0	0.93 J	0.47 J	0.35 J
VC	0.50 U	0.38 J	1.5	0.50 U	0.50 U	0.50 U

6MW-20 (5'-15') µg/L

Sample Date	2013 Sep	2014 Aug	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul	2017 Oct	2018 Mar
PCE	0.32 J	0.33 J	0.86 J	1 U	1 U	1 U	1 U	1.0 UJ	1.0 U
TCE	0.51 J	1.2	1.5 J	1 U	1 U	1 U	1 U	1.0 UJ	1.0 U
cis-1,2-DCE	**22.0**	**19.0**	**6.8**	4.4 J	3.1 J	1.7 J	0.46 J	1.0 UJ	0.80 J
VC	**2.6**	**4.3**	1.0 U	**3.6 J**	**2.3 J**	1.7 J	1 U	1.0 UJ	1.0 U

6MW-21
IP1-1
IP1-2
IP1-3
Lateral 1
IP2-1
Lateral 2
IP2-2
IP2-3
6MW-24
6MW-22
IP3-1
6MW-23
Lateral 3
IP3-2
IP3-3
IP4-1
Lateral 4
IP4-2
IP4-3
6MW-25
6MW-26
Non-Detect
6MW-11
6MW-20
6MW-19
6MW-27D
6MW-27S
Non-Detect
Non-Detect

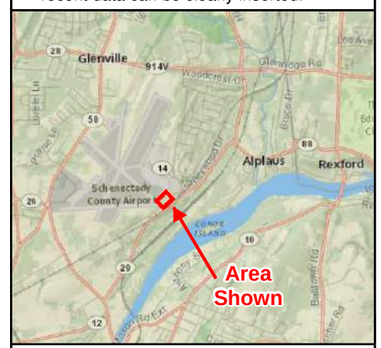
0 20 40 80 Feet
1 inch = 50 feet

Background: ESRI World Imagery (NYS ITS GIS Orthos, April 2017)

Legend

- Monitoring Well
- Infusion Point
- Collection Sump
- Horizontal Infusion Well
- Approximate Location of Stormwater Drain
- Drainage Ditch
- Stormwater Outfall
- Site 6 Boundary
- General Groundwater Flow Direction
- June 2013 Injection Event
- May 2014 Injection Event
- July 2016 Injection Event
- 2016 Baseline Sampling Event for Task Order 0004

Notes:
DCE- Dichloroethene
PCE- Tetrachloroethene
TCE- Trichloroethylene
VC- Vinyl Chloride
J- Results are an estimated concentration
U- Results are below detection limit
ND- Non-Detect
XXX- Concentration exceeds NYSDEC GA Groundwater Standards
(1) In-situ chemical oxidation involving injection of sodium permanganate conducted June 17-21, 2013 and May 6-8, 2014.
(2) Biostimulation and bioaugmentation injection conducted July 25-29, 2016.
(3) Select calendar year 2014 and 2015 sampling events were deleted so most recent data can be clearly inserted.



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GROUNDWATER CONCENTRATIONS AT SITE 6, SEPTEMBER 2013 TO MARCH 2018

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

FIGURE: 1-2 | DATE: 5/1/2018

PROJECT: \Eastern_IRP\6. GIS Files\Schenectady\Projects\LTM_Rpt_2018March\Figure 1-2 GW Concentrations at Site 6_11x17.mxd

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. 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 1-1).

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 1-1).

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 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 of deoxygenated and dechlorinated water was injected immediately before and after the injection of KB-1 Dechlorinator™ for a total of 40 gal per well.

1.7.3 Second and Third Monitoring Events

The second and third performance monitoring events were conducted on October 11, 2016, and January 9, 2017, respectively, after remedial activities. The purpose was to provide performance monitoring results after the July 2016 EVO and DHC injection activities. Additionally, the monitoring events are used to measure remaining EVO in the subsurface and determine if additional injections are necessary.

For both monitoring events, samples were analyzed for VOCs, TOC, 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. Results indicated that PCE; TCE; cis-1,2-DCE; and VC remained above their respective NYSDEC groundwater standards in one or more monitoring wells.

Results of the second and third monitoring events (October 2016 and January 2017) indicate significant changes since the 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. The results are summarized and presented in Figure 1-2.

1.7.4 Fourth and Fifth Monitoring Events

The fourth and fifth performance monitoring events were conducted on April 12, and July 21, 2017, respectively, after remedial activities. The purpose was to provide performance monitoring results after the July 2016 EVO and DHC injection activities. Additionally, the monitoring events are used to measure remaining EVO in the subsurface and determine the scope of supplemental injections conducted in April 2018.

For both monitoring events, samples were analyzed for VOCs, TOC, 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. Results indicated that TCE; cis-1,2-DCE; and VC remained above their respective NYSDEC groundwater standards in three of six monitoring wells.

Results of the fourth and fifth monitoring events (April and July 2017) indicate significant changes since the baseline event (May 2016), and the desired progression of degradation from parent to daughter solvent compounds is evident in most monitoring wells, but there is evidence of minor rebound in 6MW-24 and 6MW-25 (Figure 1-2).

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2.0 CURRENT FIELD ACTIVITIES

Field activities during this semiannual monitoring period consisted of two groundwater monitoring events. The sixth and seventh groundwater monitoring events since the initiation of Task Order 004 and the RAWP (Leidos 2016) were conducted on October 17, 2017, and March 28, 2018, 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 B.

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 4ºC, and shipped overnight for analysis. Results of collected groundwater samples are discussed in Chapter 3.0.

2.2 DEVIATIONS FROM THE WORK PLAN

During the October 2017 monitoring event, sample vials from monitoring wells (6MW-20, 6MW-22, 6MW-25, and 6MW-26) had headspace (i.e., an air bubble greater than 6 mm in diameter). This could result in slightly low bias in sample results. Therefore, the select VOCs in the affected samples were qualified as estimated (J/UJ). There were no deviations noted during the March 2018 monitoring event.

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 sixth and seventh groundwater monitoring events conducted in October 2017 and March 2018, respectively. The first event was the baseline groundwater monitoring event conducted in May 2016. Results of the second through fifth events (October 2016 through July 2017) are provided in Figure 1-2. 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 C.

3.1 WATER LEVEL MEASUREMENTS

Groundwater level measurements collected in October 2017 and March 2018 are presented in Table 3-1.

Table 3-1. Water Level Measurements

Well Identifier	TOC Elevation (ft AMSL)	Screened Interval	October 2017		March 2018	
			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	6.25	299.19	5.10	300.34
6MW-22	309.83	4.0 – 9.0	6.86	302.97	5.62	304.21
6MW-23	308.37	4.0 – 9.0	6.44	301.93	5.25	303.12
6MW-24	310.6	4.0 – 9.0	7.88	302.72	6.30	304.30
6MW-25	306.12	4.0 – 9.0	4.22	301.90	3.10	303.02
6MW-26	307.05	4.0 – 9.0	5.08	301.97	3.97	303.08

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 2017 water level measurements ranged from 299.19 ft above mean sea level (AMSL) at well 6MW-20, located adjacent to the drainage ditch, to 302.97 ft AMSL at well 6MW-22, located in the middle of the site. During the March 2018 event, groundwater elevations for the site ranged from 300.34 ft AMSL at well 6MW-20 to 304.30 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 select monitoring events from September 2013 through the latest monitoring event in March 2018. Table 3-2 summarizes the analytical results and field parameters since the baseline sampling in May 2016.

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Table 3-2. May 2016 through March 2018 Monitoring Results

Well Identifier	NYSDEC AGWQS (1998, last amended June 2004)	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20	6MW-20
Sample Identifier		6MW-2001	6MW-2001D	6MW-2002	6MW-2002D	6MW-2003	6MW-2003D	6MW-2004	6MW-2004D	6MW-2005	6MW-2005D	6MW-2006	6MW-2006D	6MW-2007	6MW-2007D
Date		5/11/16	5/11/16	10/11/16	10/11/16	1/9/17	1/9/17	4/12/17	4/12/17	7/21/17	7/21/17	10/17/17	10/17/17	3/28/18	3/28/18
Groundwater Sample Type		Grab	FD	Grab	FD	Grab	FD	Grab	FD	Grab	FD	Grab	FD	Grab	FD
Volatile Organic Compounds (µg/L)															
Tetrachloroethene	5	0.86 J	1.3 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.5 J	1.5 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	**6.8**	**7**	4.4 J	3.9 J	3.1 J	3.1 J	1.7 J	1.7 J	0.46 J	0.40 J	1.0 UJ	1.0 U	0.80 J	0.70 J
Vinyl Chloride	2	1.0 U	1.0 U	**3.6 J**	**4.1 J**	**2.3 J**	**2.4 J**	1.7 J	1.7 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
General Chemistry (mg/L)															
Total Organic Carbon	--	3	3	1.2	NA	8.0	8.4	6.5	NA	8.6	NA	3.5	NA	3.5	3.5
Field Measurements															
Dissolved Oxygen (mg/L)	--	3.83	3.83	0.00	0.00	0.00	0.00	5.69	5.69	6.43	6.43	1.63	1.63	1.03	1.03
Oxidation-Reduction Potential (mV)	--	173	173	-224	-224	-174	-174	-160	-160	-201	-201	-30	-30	18	18
pH (S.U.)	--	6.75	6.75	6.51	6.51	6.34	6.34	6.50	6.50	6.63	6.63	6.19	6.19	7.09	7.09
Specific Conductance (mS/cm)	--	1.310	1.310	1.490	1.490	1.150	1.150	1.140	1.140	1.360	1.360	0.255	0.255	1.300	1.300
Temperature (°C)	--	17.9	17.91	16.37	16.37	16.00	16.00	10.77	10.77	20.21	20.21	14.55	14.55	5.04	5.04
Turbidity (NTU)	--	1.3	1.3	7.9	7.9	19.3	19.3	6.0	6.0	39.9	39.9	0.0	0.0	5.9	5.9
Water Level (ft BGS)	--	7.33	7.33	6.43	6.43	5.68	5.68	5.32	5.32	5.48	5.48	6.25	6.25	5.10	5.10

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.

NTU = Nephelometric turbidity unit.

NYSDEC = New York State Department of Environmental Conservation.

S.U. = Standard unit.

Qualifiers:

J = Estimated concentration.
U = Undetected.

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. May 2016 through March 2018 Monitoring Results

Well Identifier	NYSDEC AGWQS (1998, last amended June 2004)	6MW-22	6MW-22	6MW-22	6MW-22	6MW-22	6MW-22	6MW-22	6MW-23	6MW-23	6MW-23	6MW-23	6MW-23	6MW-23	6MW-23
Sample Identifier		6MW-2201	6MW-2202	6MW-2203	6MW-2204	6MW-2205	6MW-2206	6MW-2207	6MW-2301	6MW-2302	6MW-2303	6MW-2304	6MW-2305	6MW-2306	6MW-2307
Date		05/11/16	10/11/16	01/09/17	04/12/17	07/21/17	10/17/17	03/28/18	05/12/16	10/11/16	01/09/17	04/12/17	07/21/17	10/17/17	03/28/18
Groundwater Sample Type		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Volatile Organic Compounds (µg/L)															
Tetrachloroethene	5	3.4 J	1.6 J	**5.2**	4.8 J	1.4 J	1.0 UJ	1.5 J	3 J	0.31 J	0.81 J	1.5 J	1.0 U	1.0 U	0.80 J
Trichloroethene	5	3.6 J	1.2 J	2.2 J	1.9 J	1.7 J	1.0 UJ	0.41 J	1.7 J	0.34 J	0.79 J	1.1 J	0.8 J	1.0 U	0.78 J
cis-1,2-Dichloroethene	5	**16**	**36**	1.6 J	2.5 J	3.3 J	1.0 UJ	0.81 J	**13**	1.3 J	0.93 J	0.85 J	2.1 J	1.0 U	1.3 J
Vinyl Chloride	2	1.0 U	**9.3**	**2.5 J**	**2.3 J**	**2.3 J**	1.0 UJ	1.0 U	1.0 U	**6.4**	1.0 U	1.0 U	1.6 J	1.1 J	0.54 J
General Chemistry (mg/L)															
Total Organic Carbon	--	2.5	370	280	74	83	50	31	2.8	41	2.6	2.8	3.9	5.1	3.1
Field Measurements															
Dissolved Oxygen (mg/L)	--	4.78	0.00	6.60	4.32	10.88	1.02	0.17	3.20	0.00	7.55	7.62	6.11	0.64	0.15
Oxidation-Reduction Potential (mV)	--	194	-174	-134	-157	-187	-69	-114	-37	-154	-104	-30	-193	-51	-72
pH (S.U.)	--	6.87	6.34	6.73	6.54	6.47	6.78	7.03	6.81	6.66	7.1	6.79	6.61	6.62	7.22
Specific Conductance (mS/cm)	--	1.400	1.150	1.120	1.230	1.260	0.366	1.060	1.120	1.020	0.490	0.280	0.825	0.239	0.890
Temperature (°C)	--	18.78	16	5.2	10.02	20.47	16.74	5.47	13.84	17.94	4.5	9.51	20.67	17.03	5.97
Turbidity (NTU)	--	1.4	19.3	0.0	51.1	60.4	18.4	8.9	1.1	30.5	0.0	32.0	32.0	1.6	43.4
Water Level (ft BGS)	--	6.89	6.79	6.45	5.47	5.58	6.86	5.62	6.31	6.38	5.75	4.64	5.23	6.44	5.25

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.

NTU = Nephelometric turbidity unit.

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S.U. = Standard unit.

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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. May 2016 through March 2018 Monitoring Results

Well Identifier	NYSDEC AGWQS (1998, last amended June 2004)	6MW-24	6MW-24	6MW-24	6MW-24	6MW-24	6MW-24	6MW-24	6MW-25	6MW-25	6MW-25	6MW-25	6MW-25	6MW-25	6MW-25
Sample Identifier		6MW-2401	6MW-2402	6MW-2403	6MW-2404	6MW-2405	6MW-2406	6MW-2407	6MW-2501	6MW-2502	6MW-2503	6MW-2504	6MW-2505	6MW-2506	6MW-2507
Date		05/12/16	10/11/16	01/09/17	04/12/17	07/21/17	10/17/17	03/28/18	05/11/16	10/11/16	01/09/17	04/12/17	07/21/17	10/17/17	03/28/18
Groundwater Sample Type		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Volatile Organic Compounds (µg/L)															
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**20**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Trichloroethene	5	**5.9**	4.9 J	3.2 J	4.6 J	**6.9**	1.6 J	**6.3**	**5.8**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.2 J
cis-1,2-Dichloroethene	5	4.8 J	**13**	3.6 J	3 J	4.7 J	3.7 J	2.2 J	**58**	0.7 J	1.5 J	1.6 J	**5.8**	2.6 J	3.8 J
Vinyl Chloride	2	1.0 U	**4.8 J**	1.6 J	0.52 J	1.3 J	**9.1**	1.0 U	**21**	1.0 U	1.0 U	1.4 J	**66**	**14 J**	**15**
General Chemistry (mg/L)															
Total Organic Carbon	--	5.3	12	9.4	6.9	5.9	6.9	4.1	2.3	110	5.1	4.6	4.4	4.1	6.5
Field Measurements															
Dissolved Oxygen (mg/L)	--	7.59	0.00	8.40	4.74	5.21	0.78	3.14	3.41	0.00	6.37	6.83	5.12	0.45	0.46
Oxidation-Reduction Potential (mV)	--	237	-285	-125	-42	-250	-68	17	12	-356	-110	-84	-252	-53	-137
pH (S.U.)	--	7.24	6.91	7.15	6.85	6.83	7.06	7.3	6.87	6.59	7.11	6.61	6.79	6.76	7.08
Specific Conductance (mS/cm)	--	1.260	0.965	1.400	1.420	1.310	0.337	1.150	1.920	1.770	0.348	0.179	1.220	0.336	0.790
Temperature (°C)	--	9.54	15.57	4.6	9.59	20.80	16.84	7.73	14.49	20.37	4.1	10.71	22.16	18.84	7.08
Turbidity (NTU)	--	1.3	5.6	0.0	6.4	41.2	0.0	6.5	1.9	5.4	0.0	76.1	54.1	0.0	6.5
Water Level (ft BGS)	--	7.82	7.39	6.74	6.40	6.52	7.88	6.30	4.13	4.19	3.50	2.51	3.11	4.22	3.10

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.

NTU = Nephelometric turbidity unit.

NYSDEC = New York State Department of Environmental Conservation.

S.U. = Standard unit.

Qualifiers:

J = Estimated concentration.
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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. May 2016 through March 2018 Monitoring Results

Well Identifier	NYSDEC AGWQS (1998, last amended June 2004)	6MW-26	6MW-26	6MW-26	6MW-26	6MW-26	6MW-26	6MW-26
Sample Identifier		6MW-2601	6MW-2602	6MW-2603	6MW-2604	6MW-2605	6MW-2606	6MW-2607
Date		05/11/16	10/11/16	01/09/17	04/12/17	07/21/17	10/17/17	03/28/18
Groundwater Sample Type		Grab	Grab	Grab	Grab	Grab	Grab	Grab
Volatile Organic Compounds (µg/L)								
Tetrachloroethene	5	1.2 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Trichloroethene	5	1.1 J	0.32 J	1.0 U	0.33 J	0.6 J	1.0 UJ	1.0 U
cis-1,2-Dichloroethene	5	**6.6**	2.6 J	2.5 J	1.8 J	2.4 J	2.3 J	1.0 J
Vinyl Chloride	2	1.0 U	1.0 U	1.0 U	0.88 J	1.8 J	**2.6 J**	0.43 J
General Chemistry (mg/L)								
Total Organic Carbon	--	2.6	70	6.1	3.5	5.4	4.1	3.4
Field Measurements								
Dissolved Oxygen (mg/L)	--	3.77	0.00	7.01	5.20	8.46	0.70	0.11
Oxidation-Reduction Potential (mV)	--	43	-201	-130	-208	-228	-67	-106
pH (S.U.)	--	7.01	6.67	7.15	6.71	6.68	6.79	7.11
Specific Conductance (mS/cm)	--	1.430	1.900	1.700	1.250	1.370	0.359	1.010
Temperature (°C)	--	13.73	18.31	4.2	11.29	21.07	19.79	7.96
Turbidity (NTU)	--	1.4	0.0	0.0	24.1	62.0	0.0	7.4
Water Level (ft BGS)	--	4.97	5.09	4.45	3.31	3.96	5.08	3.97

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.

NTU = Nephelometric turbidity unit.

NYSDEC = New York State Department of Environmental Conservation.

S.U. = Standard unit.

Qualifiers:

J = Estimated concentration.
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3.2.1 Sixth Monitoring Event

The sixth groundwater monitoring event was conducted on October 17, 2017, approximately 15 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.

COCs

PCE was not detected in any of the six monitoring wells.

TCE was detected in one of the six wells at an estimated concentration of 1.6J µg/L at well 6MW-24, well below the NYSDEC groundwater standard of 5 µg/L.

cis-1,2-DCE was detected in three of the six wells at estimated concentrations ranging from 2.3J µg/L at well 6MW-26 to 3.7J µg/L at well 6MW-24. No wells exceeded the NYSDEC groundwater standard of 5 µg/L.

VC was detected in four of the six wells at concentrations ranging from 1.1J µg/L at well 6MW-23 to 14J µg/L at well 6MW-25. Three of the six wells (6MW-24, 6MW-25, and 6MW-26) had a detected concentration that exceeded the NYSDEC groundwater standard of 2 µg/L.

TOC

TOC was detected at concentrations ranging from 3.5 to 50 mg/L, with the highest concentration observed in well 6MW-22. TOC concentrations at all monitoring wells, with the exception of well 6MW-22, are below 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 2017 event ranged from 0.45 to 1.63 mg/L. Four of the six wells had DO concentrations less than 1 mg/L, indicating conditions were conducive to anaerobic dechlorination. However, VC may be oxidized aerobically.

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 -69 to -30 mV. All six wells had levels greater than -100 mV, indicating conditions were not ideal for anaerobic dechlorination.

pH measurements ranged from 6.19 to 7.06 standard units (S.U.). Five 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 0.239 to 0.366 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 to 18.4 nephelometric turbidity units (NTUs). Overall, turbidity has been decreasing, indicating a dispersion of the amendment solution.

3.2.2 Seventh Monitoring Event

The seventh monitoring event was conducted on March 28, 2018, approximately 20 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 estimated concentrations of 1.5J µg/L at well 6MW-22 and 0.80J µg/L at well 6MW 23, well below the NYSDEC groundwater standard of 5 µg/L.

TCE was detected in four of the six wells at estimated concentrations ranging from 0.41J µg/L at well 6MW-22 to 6.3 µg/L at well 6MW-24. One of the six wells (6MW-24) had a detected concentration above the NYSDEC groundwater standard of 5 µg/L.

cis-1,2-DCE was detected in all six wells at estimated concentrations ranging from 0.80J µg/L at well 6MW-20 to 3.8 µg/L at well 6MW-25. No wells exceeded the NYSDEC groundwater standard of 5 µg/L.

VC was detected in three of the six wells at estimated concentrations ranging from 0.43J µg/L at well 6MW-26 to 15 µg/L at well 6MW-25. One of the six wells (6MW-25) had a detected concentration 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 3.1 to 31 mg/L, with the highest concentration observed in well 6MW-22. TOC concentrations at all monitoring wells, with the exception of well 6MW-22, are below the 20- to 50-mg/L optimal range recommended to sustain the biodegradation process.

Field Parameters

DO concentrations during the March 2018 event ranged from 0.11 to 3.14 mg/L. Four of the six wells had DO concentrations less than 1 mg/L, indicating conditions were conducive to anaerobic dechlorination.

ORP ranged from -137 to 18 mV. Three of the six wells had levels less than -100 mV, indicating conditions were ideal for anaerobic dechlorination.

pH ranged from 7.03 to 7.30 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 0.79 to 1.3 mS/cm. Overall, there has been a negligible change in conductivity since the May 2016 baseline monitoring event.

Final March 2018 turbidity readings ranged from 5.9 to 43.4 NTUs, indicating increased turbidity in samples compared to the October 2017 results.

3.3 DISCUSSION

The results of the sixth and seventh 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. In October 2017, 6MW-24 (VC at 9.1 µg/L), 6MW-25 (VC at 14J µg/L), and 6MW-26 (VC at 2.61J µg/L) had COC concentrations above NYSDEC groundwater standards. All six wells had reductions in concentrations below NYSDEC standards, most notably at well 6MW-25, compared to the baseline event.

Results from the March 2018 event showed COCs above NYSDEC groundwater standards in two of the six wells. TCE exceeded the NYSDEC standard in well 6MW-24 (6.3 µg/L) and VC exceeded the NYSDEC standard in well 6MW-25 (15 µg/L), showing minor to moderate rebound in both of the wells, respectively.

In March 2018, TOC remains above the minimum optimum level in just one well (6MW-22). DO and ORP values indicate anaerobic conditions favorable for reductive dechlorination in 6MW-22, 6MW-25, and 6MW-26.

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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 sixth and seventh groundwater monitoring events were conducted in October 2017 and March 2018, 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 overall 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. Results from the March 2018 event showed COCs above NYSDEC groundwater standards in only two of the six wells. TCE exceeded the NYSDEC standard in well 6MW-24 and VC exceeded the NYSDEC standard in well 6MW-25, showing minor to moderate rebound in both of the wells, respectively.

A second supplemental bioremediation injection will be conducted in April 2018 in accordance with the RAWP (Leidos 2016) and based on the October 2017 and March 2018 monitoring events. Field Change Notice FCN-02 is included in Appendix A and presents the monitoring wells with contaminant concentrations exceeding NYSDEC criteria, the injection locations near those monitoring wells with exceedances, and the proposed injection quantities for each injection well.

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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 2017a. *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.

Leidos 2017b. *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*, Final, June.

Leidos 2017c. *Second 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*, Final, December.

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.

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APPENDIX A – FIELD CHANGE NOTICE 02

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FIELD CHANGE ORDER NO.: **Stratton FCO No. 02**

PROJECT: **2015 Eastern Regional Installation Restoration Program, Remedial Action – Operations, Long Term Monitoring, Project Closeout at Multiple Air National Guard Installations Eastern Region, Stratton Air National Guard Base**

CONTRACT NO.**:** **Contract Number DW9133L-14-D-0007, Task Order Number 0004**

REQUESTER IDENTIFICATION:

NAME: **Michael Poligone** ORGANIZATION: Leidos PHONE: **(865) 481-8749**

TITLE: **Leidos Project Manager** SIGNATURE: M. Pol

BASELINE IDENTIFICATION:

BASELINE(S) AFFECTED: ☒ COST ☒ SCOPE ☒ MILESTONE ☒ METHOD OF ACCOMPLISHMENT

AFFECTED DOCUMENT: **Work Plan for RAO, Monitoring, And Project Closeout at Site 6 (Suspected Spill Area), 109th Airlift Wing, Stratton ANGB, Scotia, New York**

DESCRIPTION OF CHANGE:

This change is included in the ANG base scope of work and will not impact ANG cost or schedule. In accordance with existing approved work plan, conduct supplemental injections into existing injection wells in the vicinity of 4 existing monitoring wells (Table 1). The scope will be the same as the current work plan with variation in the quantity of vegetable oil injected. We will not be injecting into 6MW-20, so the additional creek protection elements would not be implemented other than having oil booms on hand. We would still monitor wells and the interceptor trench. See attached Table 1 for supplemental quantities and Figure 3.2 from RA Completion Report for injection well locations and Figure 1-2 for monitoring well locations.

JUSTIFICATION:

Supplemental injections to meet project milestones.

IMPACT OF NOT IMPLEMENTING REQUEST:

Not attaining payment milestone.

PARTICIPANTS AFFECTED BY IMPLEMENTING REQUEST:

Stratton Air National Guard Base

COST ESTIMATE: **N/A** ESTIMATOR SIGNATURE: _____

PHONE: _____ DATE: _____

PREVIOUS FCR AFFECTED ○ YES ☒ NO; IF YES, FCR NO _____

CLIENT PROJECT MANAGER _____ DATE _____

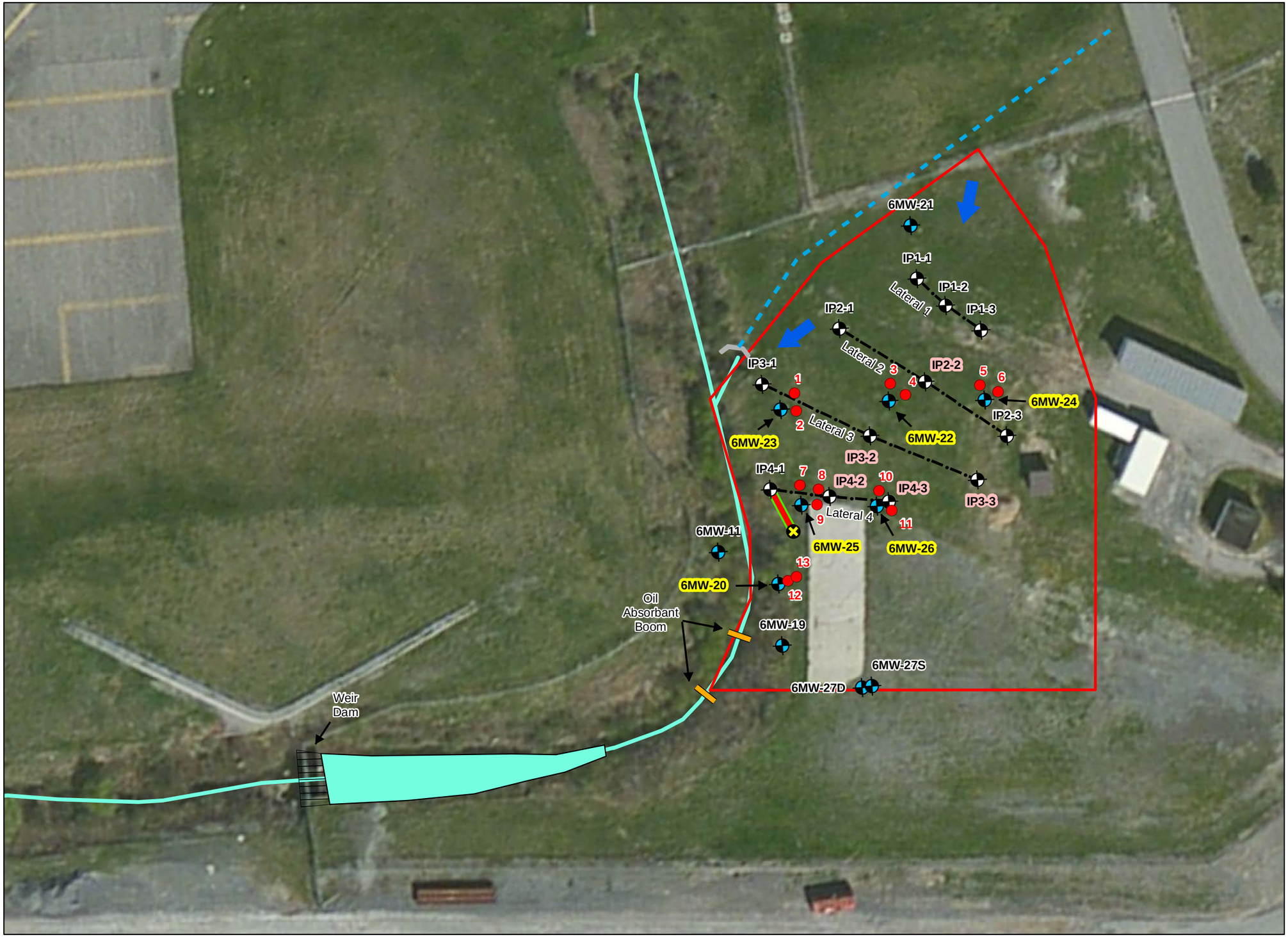
CLIENT QA SPECIALIST _____ DATE _____

Leidos H&S MANAGER SIGNATURE: **N/A - Existing AHAs encompass new scope.** DATE _____
(IF APPLICABLE)

Table 1. Summary of Proposed Injection Quantities at Site 6

Injection Well ID	Associated Monitoring Well	EVO (gal)	Water (gal)	DHC (L)
Permanent Injection Wells				
3	6MW-22	60	600	0
4	6MW-22	60	600	0
5	6MW-24	70	700	0
6	6MW-24	70	700	0
7	6MW-25	70	700	0
8	6MW-25	70	700	0
9	6MW-25	70	700	0
10	6MW-26	60	600	0
11	6MW-26	60	600	0
Subtotal Injected Volume		**590**	**5,900**	**0**

DHC = *Dehalococcoides* sp.
EVO = Emulsified vegetable oil.



LEGEND

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

NOTES

1. Oil booms were placed in the drainage ditch downstream from southernmost injection point. Pumps and tanks were in place as a contingency measure downstream from the northernmost oil boom. The drainage ditch was monitored for 48 hours and no releases were observed.

0 20 40 80 Feet

1 inch = 50 feet

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



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INJECTION WELLS
AND SAMPLE LOCATIONS FOR
SITE 6 REMEDIAL ACTION

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

FIGURE: 3-2 | DATE: 2/16/2017

PROJECT: \Eastern_IRP\6. GIS Files\Schenectady\Projects\RACR\Figure 3-2 Sample Locations For Site 6_11x17.mxd

NYSDEC CLASS GA GROUNDWATER STANDARDS (6 NYCRR 703.5)	
PCE (µg/L)	5
TCE (µg/L)	5
cis-1,2-DCE (µg/L)	5
VC (µg/L)	2

6MW-21 (3'-8') µg/L

Sample Date	2013 Sep	2014 Aug	2014 Sep	2014 Oct	2014 Dec
PCE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
TCE	0.33 J	1.0	2.9	4.5	0.25 U
cis-1,2-DCE	0.19 J	0.49 J	0.73 J	1.1	0.25 U
VC	0.50 U	0.50U	0.50 U	0.50 U	0.50 U

6MW-24 (4'-9') µg/L

Sample Date	2013 Sep	2014 Aug	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	0.25 U	0.25 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U
TCE	**12.0**	**10.0**	**6.8**	**5.9**	4.9 J	3.2 J	4.6 J	**6.9**
cis-1,2-DCE	**14.0**	**9.7**	**5.2**	4.8 J	**13**	3.6 J	3 J	4.7 J
VC	0.50 U	0.50 U	1.0 U	1.0 U	**4.8 J**	1.6 J	0.52 J	1.3 J

6MW-23 (4'-9') µg/L

Sample Date	2013 Sep	2014 Aug	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	**5.9**	**16.0**	**7.7**	3.0 J	0.31 J	0.81 J	1.5 J	1 U
TCE	3.0	**5.4**	3.8	1.7 J	0.34 J	0.79 J	1.1 J	0.8 J
cis-1,2-DCE	**18.0**	**18.0**	**15.0**	**13**	1.3 J	0.93 J	0.85 J	2.1 J
VC	**3.2**	**2.0**	1.2	1.0 U	**6.4**	1 U	1 U	1.6 J

6MW-25 (4'-9') µg/L

Sample Date	2013 Sep	2014 Sep	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	4.5	**52.0**	**47.0**	**20**	1 U	1 U	1 U	1 U
TCE	**5.0**	**8.1**	**10.0**	**5.8**	1 U	1 U	1 U	1 U
cis-1,2-DCE	**220.0**	**36.0**	**68.0**	**58**	0.7 J	1.5 J	1.6 J	**5.8**
VC	**79.0**	0.50 U	**5.8**	**21**	1 U	1 U	1.4 J	**66**

6MW-22 (4'-9') µg/L

Sample Date	2014 Dec	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	**6.5**	**6.8**	3.4 J	1.6 J	**5.2**	4.8 J	1.4 J
TCE	**7.0**	**7.0**	3.6 J	1.2 J	2.2 J	1.9 J	1.7 J
cis-1,2-DCE	**16.0**	**19.0**	**16**	**36**	1.6 J	2.5 J	3.3 J
VC	0.50 U	0.61 J	1.0 U	**9.3**	**2.5 J**	**2.3 J**	**2.3 J**

6MW-26 (4'-9') µg/L

Sample Date	2013 Sep	2014 Aug	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	2.7	3.2	2.7	1.2 J	1 U	1 U	1 U	1 U
TCE	3.0	3.1	1.9	1.1 J	0.32 J	1 U	0.33 J	0.6 J
cis-1,2-DCE	**16.0**	**11.0**	**5.3**	**6.6 J**	2.6 J	2.5 J	1.8 J	2.4 J
VC	2.0	2.3	1.0 U	1.0 U	1 U	1 U	0.88 J	1.8 J

6MW-20 (5'-15') µg/L

Sample Date	2013 Sep	2014 Aug	2015 Jan	2016 May	2016 Oct	2017 Jan	2017 Apr	2017 Jul
PCE	0.32 J	0.33 J	**5.2**	0.86 J	1 U	1 U	1 U	1 U
TCE	0.51 J	1.2	1.9	1.5 J	1 U	1 U	1 U	1 U
cis-1,2-DCE	**22.0**	**19.0**	**6.8**	**6.8**	4.4 J	3.1 J	1.7 J	0.46 J
VC	**2.6**	**4.3**	1.0 U	1.0 U	**3.6 J**	**2.3 J**	1.7 J	1 U

6MW-19 (7'-17') µg/L

Sample Date	2013 Sep	2014 Aug	2014 Sep	2014 Oct	2014 Nov	2014 Dec
PCE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
TCE	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
cis-1,2-DCE	0.78 J	0.53 J	2.0	0.93 J	0.47 J	0.35 J
VC	0.50 U	0.38 J	1.5	0.50 U	0.50 U	0.50 U

6MW-21
IP1-1
IP1-2
IP1-3
Lateral 1
IP2-1
Lateral 2
IP2-2
IP2-3
6MW-24
6MW-22
6MW-23
IP3-1
IP3-2
IP3-3
Lateral 3
IP4-1
IP4-2
IP4-3
Lateral 4
6MW-25
6MW-26
6MW-11
Non-Detect
6MW-20
6MW-19
6MW-27D
6MW-27S
Non-Detect
Non-Detect

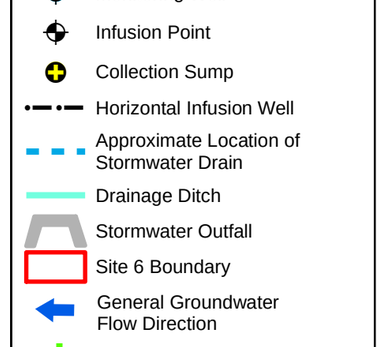
0 20 40 80 Feet
1 inch = 50 feet

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

Legend

- Monitoring Well
- Infusion Point
- Collection Sump
- Horizontal Infusion Well
- Approximate Location of Stormwater Drain
- Drainage Ditch
- Stormwater Outfall
- Site 6 Boundary
- General Groundwater Flow Direction
- June 2013 Injection Event
- May 2014 Injection Event
- July 2016 Injection Event
- 2016 Baseline Sampling Event for Task Order 0004

Notes:
DCE- Dichloroethene
PCE- Tetrachloroethene
TCE- Trichloroethylene
VC- Vinyl Chloride
J- Results are an estimated concentration
U- Results are below detection limit
ND- Non-Detect
XXX- Concentration exceeds NYSDEC GA Groundwater Standards
(1) In-situ chemical oxidation involving injection of sodium permanganate conducted June 17-21, 2013 and May 6-8, 2014.
(2) Biostimulation and bioaugmentation injection conducted July 25-29, 2016.
(3) Select calendar year 2014 sampling events were deleted so most recent data can be clearly inserted.



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GROUNDWATER CONCENTRATIONS AT SITE 6, SEPTEMBER 2013 TO JULY 2017

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

FIGURE: 1-2 | DATE: 9/27/2017

PROJECT: \Eastern_IRP\6. GIS Files\Schenectady\Projects\LTM_Rpt_2017July\Figure 1-2 GW Concentrations at Site 6_11x17.mxd

APPENDIX B – PURGE LOGS

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OCTOBER 2017

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GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 10/17/17 TIME: 9 : 30

WELL ID NUMBER: 6MW20 WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 8.8 ft. to 18.8 ft. (Estimated)

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

WATER QUALITY METER ID: Horiba U-5000

WATER LEVEL INDICATOR ID: ~~Heron~~ #82050017

PUMP ID: 900-1200

TURBIDITY ID: Horiba U-5000

PID ID: N/A

DEPTH TO WATER: 6.25 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 8.8 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 12 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

PURGE/SAMPLE METHOD: [ ] Bailer [ ] Bladder Pump [✓] Other Pump Type Peristaltic

PURGE START TIME: 9:32 PURGE END TIME: 9:56

TOTAL VOLUME PURGED: 1.2 Liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [✓] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

B-5

GROUND WATER MICRO PURGE LOG

WELL ID: 6MW-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
9:32	–	150	138	16.13	5.93	0.322 ms/cm or S/m	7.45	0.0	7.25	
9:35	0.15	150	58	15.74	6.04	0.318 ms/cm or S/m	3.02	0.0	7.40	
9:38	0.3	150	19	15.70	6.13	0.306 ms/cm or S/m	2.08	0.0	7.47	
9:41	0.45	150	-6	15.47	6.15	0.292 ms/cm or S/m	1.46	0.0	7.54	
9:44	0.6	150	-16	15.29	6.13	0.270 ms/cm or S/m	1.76	0.0	7.57	
9:47	0.75	150	-22	15.04	6.16	0.261 ms/cm or S/m	1.67	0.0	7.57	
9:50	0.9	150	-26	14.82	6.19	0.255 ms/cm or S/m	1.68	0.0	7.65	
9:53	1.05	150	-29	14.60	6.19	0.255 ms/cm or S/m	1.65	0.0	7.67	
9:56	1.2	150	-30	14.55	6.19	0.255 ms/cm or S/m	1.63	0.0	7.71	
			✓	✓	✓	✓ ms/cm or S/m	✓	✓		sampled @ 10:00
						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)

B-6

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 10/17/15 TIME: 10 : 46

WELL ID NUMBER: 6MW22 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: MUE9CTAR

WATER LEVEL INDICATOR ID: #B2050012

PUMP ID: 900-1200

TURBIDITY ID: MUF9CTAR

PID ID: N/A

DEPTH TO WATER: 6.86 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 7ft (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

PURGE/SAMPLE METHOD: [ ] Bailer [ ] Bladder Pump [✓] Other Pump Type Peristaltic

PURGE START TIME: 10:42 PURGE END TIME: 11:06

TOTAL VOLUME PURGED: .8 Liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [✓] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: 6MW22

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
10:42	–	100	-10	15.75	6.65	0.338 (ms/cm) or S/m	1.91	80.4	7.10	
10:45	0.10	100	-35	16.09	6.71	0.342 (ms/cm) or S/m	1.48	27.4	7.13	
10:48	0.20	100	-46	16.15	6.77	0.347 (ms/cm) or S/m	1.46	26.7	7.14	
10:51	0.30	100	-58	16.29	6.79	0.352 (ms/cm) or S/m	1.28	26.4	7.17	
10:54	0.40	100	-63	16.41	6.79	0.361 (ms/cm) or S/m	1.19	25.7	7.21	
10:57	0.50	100	-66	16.49	6.79	0.361 (ms/cm) or S/m	1.09	25.4	7.24	
11:00	0.60	100	-68	16.61	6.78	0.360 (ms/cm) or S/m	1.04	19.1	7.30	
11:03	0.70	100	-69	16.72	6.78	0.366 (ms/cm) or S/m	1.06	18.7	7.31	
11:06	0.80	100	-69	16.74	6.78	0.366 (ms/cm) or S/m	1.02	18.4	7.34	
			–	–	–	– ms/cm or S/m	–	–		sampled @ 11:10
						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)

B-8

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 10/17/17 TIME: 11 : 30

WELL ID NUMBER: 6MW23 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: MULTIAR

WATER LEVEL INDICATOR ID: #82050012

PUMP ID: 900-1200

TURBIDITY ID: MULTIAR

PID ID: N/A

DEPTH TO WATER: 6.44 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 7.5 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

PURGE/SAMPLE METHOD: [ ] Bailer [ ] Bladder Pump [✓] Other Pump Type Peristaltic

PURGE START TIME: 11:33 PURGE END TIME: 11:51

TOTAL VOLUME PURGED: .9 Liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [✓] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: 6MW23

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
11:33	—	150	-22	18.46	6.71	0.231 ms/cm or S/m	0.96	6.4	6.45	
11:36	0.15	150	-28	18.69	6.69	0.232 ms/cm or S/m	0.93	6.7	6.45	
11:39	0.3	150	-37	18.10	6.67	0.236 ms/cm or S/m	0.76	5.3	6.45	
11:42	0.45	150	-41	17.77	6.64	0.238 ms/cm or S/m	0.69	4.2	6.45	
11:45	0.6	150	-45	17.45	6.62	0.239 ms/cm or S/m	0.67	3.4	6.45	
11:48	0.75	150	-49	17.18	6.62	0.239 ms/cm or S/m	0.65	1.8	6.45	
11:51	0.9	150	-51	17.03	6.62	0.239 ms/cm or S/m	0.64	1.6	6.45	
			—	—	—	— ms/cm or S/m	—	—	—	sampled @ 11:55
						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)

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 10/17/17 TIME: 12:15

WELL ID NUMBER: 6MW24 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: MUE9CTAR

WATER LEVEL INDICATOR ID: ~~[illegible]~~ #82050012

PUMP ID: 900-1200

TURBIDITY ID: MUE9CTAR

PID ID: N/A

DEPTH TO WATER: 7.88 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 8 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

PURGE/SAMPLE METHOD: [ ] Bailer [ ] Bladder Pump [✓] Other Pump Type Peristaltic

PURGE START TIME: 12:18 PURGE END TIME: 12:36

TOTAL VOLUME PURGED: .9 Liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [✓] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

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GROUND WATER MICRO PURGE LOG

WELL ID: 6MW24

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
12:18	–	150	-53	15.48	7.21	0.337 ms/cm or S/m	1.01	0.0	7.97	
12:21	0.15	150	-54	16.07	7.10	0.339 ms/cm or S/m	0.44	0.0	8.01	
12:24	0.3	150	-62	16.21	7.12	0.339 ms/cm or S/m	0.76	0.0	8.05	
12:27	0.45	150	-65	16.46	7.10	0.334 ms/cm or S/m	0.77	0.0	8.02	
12:30	0.6	150	-66	16.73	7.06	0.337 ms/cm or S/m	0.76	0.0	8.00	
12:33	0.75	150	-67	16.79	7.06	0.337 ms/cm or S/m	0.74	0.0	8.01	
12:36	0.9	150	-68	16.84	7.06	0.337 ms/cm or S/m	0.78	0.0	8.01	
			—	—	—	— ms/cm or S/m	—			sample @ 12:40
						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 TASK ORDER 0004

DATE (mm/dd/yy): 10/17/17 TIME: 1 : 10

WELL ID NUMBER: 6MW25 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: MUFACTAR

WATER LEVEL INDICATOR ID: #8205012

PUMP ID: 900-1200

TURBIDITY ID: MUFACTAR

PID ID: N/A

DEPTH TO WATER: 4.22 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 7 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

PURGE/SAMPLE METHOD: [ ] Bailer [ ] Bladder Pump [✓] Other Pump Type Peristaltic

PURGE START TIME: 1:12 PURGE END TIME: 1:36

TOTAL VOLUME PURGED: 1.2 liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [✓] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY:

RECORDED BY: (Signature)

QA CHECKED BY: (Signature)

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GROUND WATER MICRO PURGE LOG

WELL ID: 6MW25

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
1:12	–	150	-16	19.39	7.01	0.309 (ms/cm) or S/m	0.61	8.7	4.29	
1:15	0.15	150	-29	19.03	6.85	0.316 (ms/cm) or S/m	0.25	5.3	4.29	
1:18	0.3	150	-39	18.73	6.79	0.319 (ms/cm) or S/m	0.29	10.6	4.30	
1:21	0.45	150	-42	18.59	6.78	0.325 (ms/cm) or S/m	0.35	9.2	4.30	
1:24	0.6	150	-46	18.54	6.77	0.331 (ms/cm) or S/m	0.40	6.7	4.30	
1:27	0.75	150	-48	18.64	6.76	0.336 (ms/cm) or S/m	0.44	2.9	4.30	
1:30	0.9	150	-52	18.77	6.76	0.336 (ms/cm) or S/m	0.45	0.0	4.30	
1:33	1.05	150	-53	18.82	6.76	0.336 (ms/cm) or S/m	0.45	0.0	4.30	
1:36	1.2	150	-53	18.84	6.76	0.336 (ms/cm) or S/m	0.45	0.0	4.30	
			–	–	–	– ms/cm or S/m	–			sampled @ 13:40
						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)

B-14

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 10/17/17 TIME: 1:55

WELL ID NUMBER: 6MW26 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: MUE9CTAR

WATER LEVEL INDICATOR ID: #82050012

PUMP ID: 900-1200

TURBIDITY ID: MUE9CTAR

PID ID: N/A

DEPTH TO WATER: 5.08 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 7 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

PURGE/SAMPLE METHOD: [ ] Bailer [ ] Bladder Pump [✓] Other Pump Type Peristaltic

PURGE START TIME: 1:58 PURGE END TIME: 2:19

TOTAL VOLUME PURGED: 1.05 Liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [✓] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

GROUND WATER MICRO PURGE LOG

WELL ID: 6MW26

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
1:58	–	150	-19	19.64	6.81	0.350 ms/cm or S/m	0.90	1.2	5.17	
2:01	0.15	150	-27	19.85	6.70	0.350 ms/cm or S/m	0.86	0.0	5.18	
2:04	0.3	150	-45	19.62	6.77	0.354 ms/cm or S/m	0.78	0.0	5.20	
2:07	0.45	150	-54	19.60	6.79	0.355 ms/cm or S/m	0.81	0.0	5.21	
2:10	0.6	150	-60	19.58	6.79	0.356 ms/cm or S/m	0.69	0.0	5.22	
2:13	0.75	150	-63	19.39	6.79	0.359 ms/cm or S/m	0.70	0.0	5.23	
2:16	0.9	150	-66	19.81	6.79	0.359 ms/cm or S/m	0.71	0.0	5.23	
2:19	1.05	150	-67	19.79°	6.79	0.359 ms/cm or S/m	0.70	0.0	5.24	
			–	–	–	– ms/cm or S/m	–	–		sampled @ 14:25
						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)

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MARCH 2018

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GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 3/28/18 TIME: 8:23

WELL ID NUMBER: 6MW20 WELL LOCATION: SITE 6

DEPTH OF SCREENED INTERVAL (toc notch): 8.8 ft. to 18.8 ft. (Estimated)

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

WATER QUALITY METER ID: Horiba U-5000

WATER LEVEL INDICATOR ID: Geotech #4834

PUMP ID: GEO-PUMP 900-1280

TURBIDITY ID: Horiba U-5000

PID ID: N/A

DEPTH TO WATER: 5.10 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 8.8 FT FROM MEASURE POINT

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

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

PURGE/SAMPLE METHOD: [ ] Bailer [ ] Bladder Pump [✓] Other Pump Type Peristaltic Pump

PURGE START TIME: 8:29 PURGE END TIME: 8:56

TOTAL VOLUME PURGED: _____

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [✓] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: Billy Hosher (Signature)

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GROUND WATER MICRO PURGE LOG

WELL ID: 6MW-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
8:29	~	150	101	4.43	7.00	1.31 (ms/cm) or S/m	3.12	8.3	6.10	
8:32	0.15	150	91	4.53	6.98	1.32 (ms/cm) or S/m	2.63	6.7	6.11	
8:35	0.3	150	77	4.63	7.03	1.32 (ms/cm) or S/m	2.12	6.9	6.13	
8:38	0.45	150	64	4.74	7.08	1.31 (ms/cm) or S/m	1.72	6.2	6.13	
8:41	0.6	150	58	4.82	7.07	1.31 (ms/cm) or S/m	1.50	7.2	6.15	
8:44	0.75	150	44	4.88	7.11	1.30 (ms/cm) or S/m	1.37	5.3	6.17	
8:47	0.9	150	32	4.97	7.10	1.30 (ms/cm) or S/m	1.20	6.7	6.18	
8:50	1.05	150	21	5.02	7.09	1.30 (ms/cm) or S/m	1.07	5.7	6.20	
8:53	1.2	150	18	5.03	7.09	1.30 (ms/cm) or S/m	1.05	6.1	6.21	
8:56	1.35	150	18	5.04	7.09	1.30 (ms/cm) or S/m	1.03	5.9	6.22	
		✓	✓	✓	✓	✓ ms/cm or S/m	✓	✓	✓	sampled @ 9:00
						ms/cm or S/m				
						ms/cm or S/m				
				SRA 4/21/18		ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: Kelly Absher (Signature)

B-20

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 3/28/18 TIME: 9 : 38

WELL ID NUMBER: 6MW22 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 U-5000

WATER LEVEL INDICATOR ID: Geotech #41834

PUMP ID: Geo-pump 900-1280

TURBIDITY ID: Horiba U-5000

PID ID: N/A

DEPTH TO WATER: 5.62 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 top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

PURGE/SAMPLE METHOD: [ ] Bailer [ ] Bladder Pump [✓] Other Pump Type Peristaltic Pump

PURGE START TIME: 9:49 PURGE END TIME: 10:16

TOTAL VOLUME PURGED: 1.35 LITERS

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [✓] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: Sally Hosher (Signature)

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GROUND WATER MICRO PURGE LOG

WELL ID: 6MW-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
9:49	–	150	-60	5.07	7.03	0.995 ms/cm or S/m	1.45	20.3	5.80	
9:52	0.15	150	-68	5.10	7.03	1.00 ms/cm or S/m	1.24	9.9	5.84	
9:55	0.3	150	-79	5.12	7.02	1.01 ms/cm or S/m	1.01	10.6	5.87	
9:58	0.45	150	-74	5.17	7.01	1.00 ms/cm or S/m	0.53	10.2	5.90	
10:01	0.6	150	-83	5.20	7.04	0.997 ms/cm or S/m	0.50	10.2	5.93	
10:04	0.75	150	-94	5.28	7.01	1.01 ms/cm or S/m	0.45	12.7	5.97	
10:07	0.9	150	-104	5.32	7.02	1.07 ms/cm or S/m	0.29	8.5	6.01	
10:10	1.05	150	-112	5.42	7.03	1.06 ms/cm or S/m	0.19	8.1	6.04	
10:13	1.2	150	-113	5.44	7.03	1.06 ms/cm or S/m	0.19	9.4	6.07	
10:16	1.35	150	-114	5.47	7.03	1.06 ms/cm or S/m	0.17	8.9	6.09	
		✓	✓	✓	✓	✓ ms/cm or S/m	✓	✓	✓	sampled @ 10:20
						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				

TCA 4/21/18

RECORDED BY: _____ (Signature)

QA CHECKED BY: Kelly Hosher (Signature)

B-22

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 3/28/18 TIME: 10 : 31

WELL ID NUMBER: 6MW23 WELL LOCATION: SITE 6

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

INNER CASING: TYPE: (PVC) or Steel ID: O.75 inches 2 inches (4 inches)

WATER QUALITY METER ID: Horiba U-5000

WATER LEVEL INDICATOR ID: Geotech #4834

PUMP ID: Geo pump 900-1280

TURBIDITY ID: Horiba U-5000

PID ID: N/A

DEPTH TO WATER: 5.25 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 7 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

PURGE/SAMPLE METHOD: [ ] Bailer [ ] Bladder Pump [✓] Other Pump Type Peristaltic Pump

PURGE START TIME: 10:40 PURGE END TIME: 11:01

TOTAL VOLUME PURGED: 1.05 Liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [✓] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (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
10:40	—	150	-36	5.84	7.39	0.535 ms/cm or S/m	3.38	62.1	5.27	
10:43	0.45	150	-33	5.84	7.23	0.602 ms/cm or S/m	1.89	58.9	5.27	
10:46	0.3	150	-33	5.84	7.20	0.648 ms/cm or S/m	1.70	60.7	5.27	
10:49	0.45	150	-46	5.90	7.23	0.973 ms/cm or S/m	0.93	52.6	5.27	
10:52	0.6	150	-58	5.91	7.20	0.992 ms/cm or S/m	0.22	48.6	5.27	
10:55	0.75	150	-67	5.92	7.22	0.890 ms/cm or S/m	0.19	47.2	5.27	
10:58	0.9	150	-71	5.97	7.22	0.890 ms/cm or S/m	0.16	47.1	5.27	
11:01	1.05	150	-72	5.97	7.22	0.890 ms/cm or S/m	0.15	43.4	5.27	
		✓	✓	✓	✓	✓ ms/cm or S/m	✓	✓	✓	sampled @ 11:05
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
			SCH	4/21/18		ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

B-24

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 3/28/18 TIME: 11 : 24

WELL ID NUMBER: 6MW24 WELL LOCATION: SITE 6

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

INNER CASING: TYPE: (PVC) or Steel ID: O.75 inches 2 inches (4 inches)

WATER QUALITY METER ID: Horiba U-5000

WATER LEVEL INDICATOR ID: GeoTech # 45334

PUMP ID: Geo pump 400-1280

TURBIDITY ID: Horiba U-5000

PID ID: N/A

DEPTH TO WATER: 6.30 FT FROM MEASURE POINT

DEPTH TO TOP OF SCREEN: 4 FT FROM MEASURE POINT

DEPTH TO PUMP INTAKE: 7.5 (see note) FT FROM MEASURE POINT

Note: If the water table is below top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

PURGE/SAMPLE METHOD: [ ] Bailer [ ] Bladder Pump [✓] Other Pump Type Peristaltic Pump

PURGE START TIME: 11:30 PURGE END TIME: 11:54

TOTAL VOLUME PURGED: 1.2 Liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [✓] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

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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 BTOC)	COMMENTS
11:30	–	150	-24	6.97	7.31	1.17 ms/cm or S/m	3.96	11.4	6.44	
11:33	0.15	150	-16	7.08	7.31	1.17 ms/cm or S/m	3.27	8.0	6.50	
11:36	0.3	150	-6	7.22	7.29	1.16 ms/cm or S/m	3.56	7.9	6.53	
11:39	0.45	150	-1	7.34	7.30	1.16 ms/cm or S/m	3.55	8.2	6.57	
11:42	0.6	150	6	7.48	7.30	1.15 ms/cm or S/m	3.38	7.5	6.61	
11:45	0.75	150	10	7.58	7.30	1.15 ms/cm or S/m	3.23	7.1	6.64	
11:48	0.9	150	14	7.64	7.30	1.15 ms/cm or S/m	3.19	7.1	6.67	
11:51	1.05	150	15	7.70	7.30	1.15 ms/cm or S/m	3.16	6.7	6.71	
11:54	1.2	150	17	7.73	7.30	1.15 ms/cm or S/m	3.14	6.5	6.76	
		✓	✓	✓	✓	✓ ms/cm or S/m	✓	✓	–	sampled @ 12:00
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
			SRA	4/21/18		ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature) QA CHECKED BY: _____ (Signature)

B-26

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 3/28/16 TIME: 12:35

WELL ID NUMBER: 6MW25 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 U-5000

WATER LEVEL INDICATOR ID: Geotech # 4834

PUMP ID: Geo-pump 900-1280

TURBIDITY ID: Horiba U-5000

PID ID: N/A

DEPTH TO WATER: 3.10 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 top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

PURGE/SAMPLE METHOD: [ ] Bailer [ ] Bladder Pump [✓] Other Pump Type Peristaltic Pump

PURGE START TIME: 12:43 PURGE END TIME: 1:10

TOTAL VOLUME PURGED: 1.35 Liters

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [✓] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: Kelly Asher (Signature)

B-27

GROUND WATER MICRO PURGE LOG

WELL ID: 6MW-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
12:43	~	150	-95	7.97	7.21	0.703 ms/cm or S/m	2.50	16.8	3.27	
12:46	0.15	150	-107	7.98	7.13	0.697 ms/cm or S/m	1.62	12.5	3.27	
12:49	0.3	150	-113	7.82	7.08	0.703 ms/cm or S/m	0.83	10.9	3.30	
12:52	0.45	150	-121	7.70	7.10	0.706 ms/cm or S/m	0.72	8.6	3.31	
12:55	0.6	150	-124	7.57	7.10	0.715 ms/cm or S/m	0.64	9.5	3.30	
12:58	0.75	150	-128	7.43	7.09	0.730 ms/cm or S/m	0.56	7.8	3.30	
1:01	0.9	150	-131	7.27	7.08	0.757 ms/cm or S/m	0.53	6.7	3.30	
1:04	1.05	150	-134	7.17	7.08	0.790 ms/cm or S/m	0.48	5.3	3.30	
1:07	1.2	150	-136	7.10	7.06	0.790 ms/cm or S/m	0.47	6.1	3.30	
1:10	1.35	150	-137	7.08	7.08	0.790 ms/cm or S/m	0.46	6.5	3.30	
		✓	✓	✓	✓	✓ ms/cm or S/m	✓	✓		sampled @ 13:15
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
				SEA 4/21/18		ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: _____ (Signature)

B-28

GROUND WATER MICRO PURGE SHEET

PROJECT NAME: SCHENECTADY SITE 6 TASK ORDER 0004

DATE (mm/dd/yy): 3/28/18 TIME: 13 : 20

WELL ID NUMBER: 6MW26 WELL LOCATION: SITE 6

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

INNER CASING: TYPE: (PVC) or Steel ID: O.75 inches 2 inches (4 inches)

WATER QUALITY METER ID: Horiba U-5000

WATER LEVEL INDICATOR ID: Geotech # 45324

PUMP ID: Geo-pump 900-1280

TURBIDITY ID: Horiba U-5000

PID ID: N/A

DEPTH TO WATER: 3.97 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 top of screen, pump should be positioned approximately in the middle of water column. If not, place in middle of screen.

PURGE/SAMPLE METHOD: [ ] Bailer [ ] Bladder Pump [✓] Other Pump Type Peristaltic Pump

PURGE START TIME: 1:26 PURGE END TIME: 1:50

TOTAL VOLUME PURGED: 1.2 2.4ECS

S&A PLAN SAMPLING PROCEDURE FOLLOWED: [✓] Yes [ ] No IF NO, WHY WAS A DEVIATION NECESSARY: _____

RECORDED BY: _____ (Signature) QA CHECKED BY: Kelly Absher (Signature)

B-29

GROUND WATER MICRO PURGE LOG

WELL ID: 6MW-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
1:26	-	150	-77	7.77	7.25	0.84 ms/cm or S/m	2.10	15.8	4.05	
1:29	0.15	150	-87	7.72	7.17	0.840 ms/cm or S/m	1.26	12.2	4.06	
1:32	0.3	150	-94	7.79	7.13	0.891 ms/cm or S/m	0.58	9.9	4.06	
1:35	0.45	150	-98	7.81	7.13	0.927 ms/cm or S/m	0.39	6.5	4.06	
1:38	0.6	150	-100	7.84	7.12	0.956 ms/cm or S/m	0.26	8.3	4.06	
1:41	0.75	150	-104	7.91	7.10	1.00 ms/cm or S/m	0.16	7.5	4.06	
1:44	0.9	150	-105	7.91	7.11	1.01 ms/cm or S/m	0.14	7.1	4.06	
1:47	1.05	150	-106	7.95	7.11	1.01 ms/cm or S/m	0.12	7.3	4.06	
1:50	1.2	150	-106	7.96	7.11	1.01 ms/cm or S/m	0.11	7.4	4.06	
		✓	✓	✓	✓	✓ ms/cm or S/m	✓	✓	✓	sampled @ 13:55
						ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				
			SRA	4/21/18		ms/cm or S/m				
						ms/cm or S/m				
						ms/cm or S/m				

RECORDED BY: _____ (Signature)

QA CHECKED BY: Sally Mosher (Signature)

APPENDIX C – ANALYTICAL LABORATORY DATA PACKAGES PERFORMANCE MONITORING – OCTOBER 2017 AND MARCH 2018

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

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OCTOBER 2017

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ANALYTICAL REPORT

Job Number: 280-102516-1

Job Description: Stratton ANGB, NY (Schenectady)

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.
Donna R Rydberg
Senior Project Manager
11/7/2017 9:22 AM

Donna R Rydberg, Senior Project Manager
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0192
donna.rydberg@testamericainc.com
11/07/2017

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.

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

Glossary

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

CASE NARRATIVE

Client: Leidos, Inc.

Project: Stratton ANGB, NY (Schenectady)

Report Number: 280-102516-1

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 at the TestAmerica Denver laboratory on 10/18/2017 at 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1ºC.
The 8260 samples were subbed to the TestAmerica St. Louis laboratory for analyses.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples 6MW2006 (280-102516-1), 6MW2006D (280-102516-2), 6MW2206 (280-102516-3), 6MW2306 (280-102516-4), 6MW2406 (280-102516-5), 6MW2506 (280-102516-6), 6MW2606 (280-102516-7), TB07 (280-102516-8) and FB03 (280-102516-9) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with 8260C_DOD5. The samples were analyzed on 10/24/2017 and 10/25/2017.

The following volatile samples were analyzed with significant headspace in the sample Container: 6MW2006 (280-102516-1), 6MW2006MS (280-102516-1[MS]), 6MW2006MSD (280-102516-1[MSD]), 6MW2206 (280-102516-3), MW2506 (280-102516-6), 6MW2606 (280-102516-7), (280-102516-B-7 MS) and (280-102516-B-7 MSD). Significant headspace is defined as a bubble greater than 6 mm in diameter. The client was notified and the samples were reported and narrated.

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-333745: 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 160-333745/3) and (CCVC 160-333745/16).

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

TOTAL ORGANIC CARBON

Samples 6MW2006 (280-102516-1), 6MW2206 (280-102516-3), 6MW2306 (280-102516-4), 6MW2406 (280-102516-5), 6MW2506 (280-102516-6) and 6MW2606 (280-102516-7) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 10/25/2017 and 10/26/2017.

Sample 6MW2206 (280-102516-3) required a 2X dilution prior to analysis. The reporting limits have been adjusted accordingly.

Total Organic Carbon - Quad was detected in method blank MB 280-392810/5 at a level that was less than one half the LOQ; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged “J” in accordance with the DoD QSM.

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: Stratton ANGB, NY (Schenectady)

TestAmerica Job ID: 280-102516-1

Client Sample ID: 6MW2006 — Lab Sample ID: 280-102516-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Quad	3.5		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2006D — Lab Sample ID: 280-102516-2

No Detections.

Client Sample ID: 6MW2206 — Lab Sample ID: 280-102516-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.3	J	5.0	1.0	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	50		2.0	0.31	mg/L	2		9060A	Total/NA

Client Sample ID: 6MW2306 — Lab Sample ID: 280-102516-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.1	J	5.0	0.43	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: 6MW2406 — Lab Sample ID: 280-102516-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.7	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Trichloroethene	1.6	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	9.1		5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	6.9		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2506 — Lab Sample ID: 280-102516-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene - RA	2.6	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Vinyl chloride - RA	14		5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	4.1		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2606 — Lab Sample ID: 280-102516-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.3	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	2.6	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	4.1		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: TB07 — Lab Sample ID: 280-102516-8

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.1	J	5.0	1.0	ug/L	1		8260C DOD	Total/NA

Client Sample ID: FB03 — Lab Sample ID: 280-102516-9

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.1	J	5.0	1.0	ug/L	1		8260C DOD	Total/NA

This Detection Summary does not include radiochemical test results.

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

Client Sample ID: 6MW2006 **Lab Sample ID: 280-102516-1**
Date Collected: 10/17/17 10:00 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/24/17 22:55	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/24/17 22:55	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/24/17 22:55	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/24/17 22:55	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/24/17 22:55	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/24/17 22:55	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/24/17 22:55	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/24/17 22:55	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/24/17 22:55	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/24/17 22:55	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/24/17 22:55	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/24/17 22:55	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/24/17 22:55	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/24/17 22:55	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/24/17 22:55	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/24/17 22:55	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/24/17 22:55	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/24/17 22:55	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/24/17 22:55	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/24/17 22:55	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/24/17 22:55	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/24/17 22:55	1
Acetone	10	U	20	6.7	ug/L			10/24/17 22:55	1
Benzene	1.0	U	5.0	0.25	ug/L			10/24/17 22:55	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/24/17 22:55	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/24/17 22:55	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/24/17 22:55	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/24/17 22:55	1
Bromomethane	2.0	U	10	0.40	ug/L			10/24/17 22:55	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/24/17 22:55	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/24/17 22:55	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/24/17 22:55	1
Chloroethane	1.0	U	10	0.38	ug/L			10/24/17 22:55	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/24/17 22:55	1
Chloromethane	2.0	U	10	0.55	ug/L			10/24/17 22:55	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			10/24/17 22:55	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/24/17 22:55	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/24/17 22:55	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/24/17 22:55	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/24/17 22:55	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/24/17 22:55	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/24/17 22:55	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/24/17 22:55	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/24/17 22:55	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/24/17 22:55	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/24/17 22:55	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/24/17 22:55	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/24/17 22:55	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/24/17 22:55	1

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

Client Sample ID: 6MW2006 **Lab Sample ID: 280-102516-1**
Date Collected: 10/17/17 10:00 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/24/17 22:55	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/24/17 22:55	1
Styrene	1.0	U	5.0	0.35	ug/L			10/24/17 22:55	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/24/17 22:55	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/24/17 22:55	1
Toluene	1.0	U	5.0	1.0	ug/L			10/24/17 22:55	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/24/17 22:55	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/24/17 22:55	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/24/17 22:55	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/24/17 22:55	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			10/24/17 22:55	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/24/17 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*81 - 118*		*10/24/17 22:55*	*1*
4-Bromofluorobenzene (Surr)	*91*		*85 - 114*		*10/24/17 22:55*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 119*		*10/24/17 22:55*	*1*
Toluene-d8 (Surr)	*96*		*89 - 112*		*10/24/17 22:55*	*1*

Client Sample ID: 6MW2006D **Lab Sample ID: 280-102516-2**
Date Collected: 10/17/17 10:00 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/25/17 00:33	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/25/17 00:33	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/25/17 00:33	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/25/17 00:33	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/25/17 00:33	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/25/17 00:33	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/25/17 00:33	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/25/17 00:33	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/25/17 00:33	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/25/17 00:33	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/25/17 00:33	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/25/17 00:33	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/25/17 00:33	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/25/17 00:33	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/25/17 00:33	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/25/17 00:33	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/25/17 00:33	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/25/17 00:33	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/25/17 00:33	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/25/17 00:33	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/25/17 00:33	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/25/17 00:33	1
Acetone	10	U	20	6.7	ug/L			10/25/17 00:33	1
Benzene	1.0	U	5.0	0.25	ug/L			10/25/17 00:33	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/25/17 00:33	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/25/17 00:33	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/25/17 00:33	1

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

Client Sample ID: 6MW2006D **Lab Sample ID: 280-102516-2**
Date Collected: 10/17/17 10:00 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	1.0	U	5.0	0.37	ug/L			10/25/17 00:33	1
Bromomethane	2.0	U	10	0.40	ug/L			10/25/17 00:33	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/25/17 00:33	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/25/17 00:33	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/25/17 00:33	1
Chloroethane	1.0	U	10	0.38	ug/L			10/25/17 00:33	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/25/17 00:33	1
Chloromethane	2.0	U	10	0.55	ug/L			10/25/17 00:33	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			10/25/17 00:33	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/25/17 00:33	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/25/17 00:33	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/25/17 00:33	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/25/17 00:33	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/25/17 00:33	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/25/17 00:33	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/25/17 00:33	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/25/17 00:33	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/25/17 00:33	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/25/17 00:33	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/25/17 00:33	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/25/17 00:33	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/25/17 00:33	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/25/17 00:33	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 00:33	1
Styrene	1.0	U	5.0	0.35	ug/L			10/25/17 00:33	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 00:33	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/25/17 00:33	1
Toluene	1.0	U	5.0	1.0	ug/L			10/25/17 00:33	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/25/17 00:33	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/25/17 00:33	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/25/17 00:33	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/25/17 00:33	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			10/25/17 00:33	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/25/17 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*81 - 118*		*10/25/17 00:33*	*1*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*		*10/25/17 00:33*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 119*		*10/25/17 00:33*	*1*
Toluene-d8 (Surr)	*109*		*89 - 112*		*10/25/17 00:33*	*1*

Client Sample ID: 6MW2206 **Lab Sample ID: 280-102516-3**
Date Collected: 10/17/17 11:10 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/25/17 00:58	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/25/17 00:58	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/25/17 00:58	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/25/17 00:58	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/25/17 00:58	1

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

Client Sample ID: 6MW2206 **Lab Sample ID: 280-102516-3**
Date Collected: 10/17/17 11:10 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/25/17 00:58	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/25/17 00:58	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/25/17 00:58	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/25/17 00:58	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/25/17 00:58	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/25/17 00:58	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/25/17 00:58	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/25/17 00:58	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/25/17 00:58	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/25/17 00:58	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/25/17 00:58	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/25/17 00:58	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/25/17 00:58	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/25/17 00:58	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/25/17 00:58	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/25/17 00:58	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/25/17 00:58	1
Acetone	10	U	20	6.7	ug/L			10/25/17 00:58	1
Benzene	1.0	U	5.0	0.25	ug/L			10/25/17 00:58	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/25/17 00:58	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/25/17 00:58	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/25/17 00:58	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/25/17 00:58	1
Bromomethane	2.0	U	10	0.40	ug/L			10/25/17 00:58	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/25/17 00:58	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/25/17 00:58	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/25/17 00:58	1
Chloroethane	1.0	U	10	0.38	ug/L			10/25/17 00:58	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/25/17 00:58	1
Chloromethane	2.0	U	10	0.55	ug/L			10/25/17 00:58	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			10/25/17 00:58	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/25/17 00:58	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/25/17 00:58	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/25/17 00:58	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/25/17 00:58	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/25/17 00:58	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/25/17 00:58	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/25/17 00:58	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/25/17 00:58	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/25/17 00:58	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/25/17 00:58	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/25/17 00:58	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/25/17 00:58	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/25/17 00:58	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/25/17 00:58	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 00:58	1
Styrene	1.0	U	5.0	0.35	ug/L			10/25/17 00:58	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 00:58	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/25/17 00:58	1

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

Client Sample ID: 6MW2206 **Lab Sample ID: 280-102516-3**
Date Collected: 10/17/17 11:10 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**2.3**	**J**	5.0	1.0	ug/L			10/25/17 00:58	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/25/17 00:58	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/25/17 00:58	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/25/17 00:58	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/25/17 00:58	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			10/25/17 00:58	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/25/17 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*81 - 118*		*10/25/17 00:58*	*1*
4-Bromofluorobenzene (Surr)	*96*		*85 - 114*		*10/25/17 00:58*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 119*		*10/25/17 00:58*	*1*
Toluene-d8 (Surr)	*98*		*89 - 112*		*10/25/17 00:58*	*1*

Client Sample ID: 6MW2306 **Lab Sample ID: 280-102516-4**
Date Collected: 10/17/17 11:55 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/25/17 17:52	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/25/17 17:52	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/25/17 17:52	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/25/17 17:52	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/25/17 17:52	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/25/17 17:52	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/25/17 17:52	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/25/17 17:52	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/25/17 17:52	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/25/17 17:52	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/25/17 17:52	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/25/17 17:52	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/25/17 17:52	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/25/17 17:52	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/25/17 17:52	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/25/17 17:52	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/25/17 17:52	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/25/17 17:52	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/25/17 17:52	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/25/17 17:52	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/25/17 17:52	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/25/17 17:52	1
Acetone	10	U	20	6.7	ug/L			10/25/17 17:52	1
Benzene	1.0	U	5.0	0.25	ug/L			10/25/17 17:52	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/25/17 17:52	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/25/17 17:52	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/25/17 17:52	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/25/17 17:52	1
Bromomethane	2.0	U	10	0.40	ug/L			10/25/17 17:52	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/25/17 17:52	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/25/17 17:52	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/25/17 17:52	1

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

Client Sample ID: 6MW2306 **Lab Sample ID: 280-102516-4**
Date Collected: 10/17/17 11:55 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U	10	0.38	ug/L			10/25/17 17:52	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/25/17 17:52	1
Chloromethane	2.0	U	10	0.55	ug/L			10/25/17 17:52	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			10/25/17 17:52	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/25/17 17:52	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/25/17 17:52	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/25/17 17:52	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/25/17 17:52	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/25/17 17:52	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/25/17 17:52	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/25/17 17:52	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/25/17 17:52	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/25/17 17:52	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/25/17 17:52	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/25/17 17:52	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/25/17 17:52	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/25/17 17:52	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/25/17 17:52	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 17:52	1
Styrene	1.0	U	5.0	0.35	ug/L			10/25/17 17:52	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 17:52	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/25/17 17:52	1
Toluene	1.0	U	5.0	1.0	ug/L			10/25/17 17:52	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/25/17 17:52	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/25/17 17:52	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/25/17 17:52	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/25/17 17:52	1
Vinyl chloride	**1.1**	**J**	5.0	0.43	ug/L			10/25/17 17:52	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/25/17 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*81 - 118*		*10/25/17 17:52*	*1*
4-Bromofluorobenzene (Surr)	*92*		*85 - 114*		*10/25/17 17:52*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 119*		*10/25/17 17:52*	*1*
Toluene-d8 (Surr)	*100*		*89 - 112*		*10/25/17 17:52*	*1*

Client Sample ID: 6MW2406 **Lab Sample ID: 280-102516-5**
Date Collected: 10/17/17 12:40 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/25/17 18:26	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/25/17 18:26	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/25/17 18:26	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/25/17 18:26	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/25/17 18:26	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/25/17 18:26	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/25/17 18:26	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/25/17 18:26	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/25/17 18:26	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/25/17 18:26	1

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

Client Sample ID: 6MW2406 **Lab Sample ID: 280-102516-5**
Date Collected: 10/17/17 12:40 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/25/17 18:26	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/25/17 18:26	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/25/17 18:26	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/25/17 18:26	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/25/17 18:26	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/25/17 18:26	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/25/17 18:26	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/25/17 18:26	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/25/17 18:26	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/25/17 18:26	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/25/17 18:26	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/25/17 18:26	1
Acetone	10	U	20	6.7	ug/L			10/25/17 18:26	1
Benzene	1.0	U	5.0	0.25	ug/L			10/25/17 18:26	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/25/17 18:26	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/25/17 18:26	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/25/17 18:26	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/25/17 18:26	1
Bromomethane	2.0	U	10	0.40	ug/L			10/25/17 18:26	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/25/17 18:26	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/25/17 18:26	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/25/17 18:26	1
Chloroethane	1.0	U	10	0.38	ug/L			10/25/17 18:26	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/25/17 18:26	1
Chloromethane	2.0	U	10	0.55	ug/L			10/25/17 18:26	1
cis-1,2-Dichloroethene	**3.7**	**J**	5.0	0.16	ug/L			10/25/17 18:26	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/25/17 18:26	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/25/17 18:26	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/25/17 18:26	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/25/17 18:26	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/25/17 18:26	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/25/17 18:26	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/25/17 18:26	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/25/17 18:26	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/25/17 18:26	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/25/17 18:26	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/25/17 18:26	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/25/17 18:26	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/25/17 18:26	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/25/17 18:26	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 18:26	1
Styrene	1.0	U	5.0	0.35	ug/L			10/25/17 18:26	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 18:26	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/25/17 18:26	1
Toluene	1.0	U	5.0	1.0	ug/L			10/25/17 18:26	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/25/17 18:26	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/25/17 18:26	1
Trichloroethene	**1.6**	**J**	5.0	0.29	ug/L			10/25/17 18:26	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/25/17 18:26	1

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

Client Sample ID: 6MW2406 **Lab Sample ID: 280-102516-5**
Date Collected: 10/17/17 12:40 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**9.1**		5.0	0.43	ug/L			10/25/17 18:26	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/25/17 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*81 - 118*		*10/25/17 18:26*	*1*
4-Bromofluorobenzene (Surr)	*90*		*85 - 114*		*10/25/17 18:26*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 119*		*10/25/17 18:26*	*1*
Toluene-d8 (Surr)	*98*		*89 - 112*		*10/25/17 18:26*	*1*

Client Sample ID: 6MW2606 **Lab Sample ID: 280-102516-7**
Date Collected: 10/17/17 14:25 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/25/17 19:30	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/25/17 19:30	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/25/17 19:30	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/25/17 19:30	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/25/17 19:30	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/25/17 19:30	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/25/17 19:30	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/25/17 19:30	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/25/17 19:30	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/25/17 19:30	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/25/17 19:30	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/25/17 19:30	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/25/17 19:30	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/25/17 19:30	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/25/17 19:30	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/25/17 19:30	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/25/17 19:30	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/25/17 19:30	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/25/17 19:30	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/25/17 19:30	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/25/17 19:30	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/25/17 19:30	1
Acetone	10	U	20	6.7	ug/L			10/25/17 19:30	1
Benzene	1.0	U	5.0	0.25	ug/L			10/25/17 19:30	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/25/17 19:30	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/25/17 19:30	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/25/17 19:30	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/25/17 19:30	1
Bromomethane	2.0	U	10	0.40	ug/L			10/25/17 19:30	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/25/17 19:30	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/25/17 19:30	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/25/17 19:30	1
Chloroethane	1.0	U	10	0.38	ug/L			10/25/17 19:30	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/25/17 19:30	1
Chloromethane	2.0	U	10	0.55	ug/L			10/25/17 19:30	1
cis-1,2-Dichloroethene	**2.3**	**J**	5.0	0.16	ug/L			10/25/17 19:30	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/25/17 19:30	1

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

Client Sample ID: 6MW2606 **Lab Sample ID: 280-102516-7**
Date Collected: 10/17/17 14:25 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/25/17 19:30	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/25/17 19:30	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/25/17 19:30	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/25/17 19:30	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/25/17 19:30	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/25/17 19:30	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/25/17 19:30	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/25/17 19:30	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/25/17 19:30	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/25/17 19:30	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/25/17 19:30	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/25/17 19:30	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/25/17 19:30	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 19:30	1
Styrene	1.0	U	5.0	0.35	ug/L			10/25/17 19:30	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 19:30	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/25/17 19:30	1
Toluene	1.0	U	5.0	1.0	ug/L			10/25/17 19:30	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/25/17 19:30	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/25/17 19:30	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/25/17 19:30	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/25/17 19:30	1
Vinyl chloride	**2.6**	**J**	5.0	0.43	ug/L			10/25/17 19:30	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/25/17 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*81 - 118*		*10/25/17 19:30*	*1*
4-Bromofluorobenzene (Surr)	*90*		*85 - 114*		*10/25/17 19:30*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 119*		*10/25/17 19:30*	*1*
Toluene-d8 (Surr)	*101*		*89 - 112*		*10/25/17 19:30*	*1*

Client Sample ID: TB07 **Lab Sample ID: 280-102516-8**
Date Collected: 10/17/17 14:45 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/24/17 22:06	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/24/17 22:06	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/24/17 22:06	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/24/17 22:06	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/24/17 22:06	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/24/17 22:06	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/24/17 22:06	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/24/17 22:06	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/24/17 22:06	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/24/17 22:06	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/24/17 22:06	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/24/17 22:06	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/24/17 22:06	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/24/17 22:06	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/24/17 22:06	1

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

Client Sample ID: TB07 **Lab Sample ID: 280-102516-8**
Date Collected: 10/17/17 14:45 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/24/17 22:06	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/24/17 22:06	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/24/17 22:06	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/24/17 22:06	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/24/17 22:06	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/24/17 22:06	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/24/17 22:06	1
Acetone	10	U	20	6.7	ug/L			10/24/17 22:06	1
Benzene	1.0	U	5.0	0.25	ug/L			10/24/17 22:06	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/24/17 22:06	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/24/17 22:06	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/24/17 22:06	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/24/17 22:06	1
Bromomethane	2.0	U	10	0.40	ug/L			10/24/17 22:06	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/24/17 22:06	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/24/17 22:06	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/24/17 22:06	1
Chloroethane	1.0	U	10	0.38	ug/L			10/24/17 22:06	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/24/17 22:06	1
Chloromethane	2.0	U	10	0.55	ug/L			10/24/17 22:06	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			10/24/17 22:06	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/24/17 22:06	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/24/17 22:06	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/24/17 22:06	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/24/17 22:06	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/24/17 22:06	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/24/17 22:06	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/24/17 22:06	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/24/17 22:06	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/24/17 22:06	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/24/17 22:06	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/24/17 22:06	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/24/17 22:06	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/24/17 22:06	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/24/17 22:06	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/24/17 22:06	1
Styrene	1.0	U	5.0	0.35	ug/L			10/24/17 22:06	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/24/17 22:06	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/24/17 22:06	1
Toluene	**1.1**	**J**	5.0	1.0	ug/L			10/24/17 22:06	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/24/17 22:06	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/24/17 22:06	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/24/17 22:06	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/24/17 22:06	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			10/24/17 22:06	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/24/17 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*		*10/24/17 22:06*	*1*
4-Bromofluorobenzene (Surr)	*93*		*85 - 114*		*10/24/17 22:06*	*1*

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

Client Sample ID: TB07 **Lab Sample ID: 280-102516-8**
Date Collected: 10/17/17 14:45 **Matrix: Water**
Date Received: 10/18/17 08:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*10/24/17 22:06*	*1*
Toluene-d8 (Surr)	*97*		*89 - 112*		*10/24/17 22:06*	*1*

Client Sample ID: FB03 **Lab Sample ID: 280-102516-9**
Date Collected: 10/17/17 14:50 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/24/17 22:30	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/24/17 22:30	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/24/17 22:30	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/24/17 22:30	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/24/17 22:30	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/24/17 22:30	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/24/17 22:30	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/24/17 22:30	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/24/17 22:30	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/24/17 22:30	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/24/17 22:30	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/24/17 22:30	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/24/17 22:30	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/24/17 22:30	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/24/17 22:30	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/24/17 22:30	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/24/17 22:30	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/24/17 22:30	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/24/17 22:30	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/24/17 22:30	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/24/17 22:30	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/24/17 22:30	1
Acetone	10	U	20	6.7	ug/L			10/24/17 22:30	1
Benzene	1.0	U	5.0	0.25	ug/L			10/24/17 22:30	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/24/17 22:30	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/24/17 22:30	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/24/17 22:30	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/24/17 22:30	1
Bromomethane	2.0	U	10	0.40	ug/L			10/24/17 22:30	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/24/17 22:30	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/24/17 22:30	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/24/17 22:30	1
Chloroethane	1.0	U	10	0.38	ug/L			10/24/17 22:30	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/24/17 22:30	1
Chloromethane	2.0	U	10	0.55	ug/L			10/24/17 22:30	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			10/24/17 22:30	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/24/17 22:30	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/24/17 22:30	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/24/17 22:30	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/24/17 22:30	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/24/17 22:30	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/24/17 22:30	1

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

Client Sample ID: FB03 **Lab Sample ID: 280-102516-9**
Date Collected: 10/17/17 14:50 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/24/17 22:30	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/24/17 22:30	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/24/17 22:30	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/24/17 22:30	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/24/17 22:30	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/24/17 22:30	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/24/17 22:30	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/24/17 22:30	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/24/17 22:30	1
Styrene	1.0	U	5.0	0.35	ug/L			10/24/17 22:30	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/24/17 22:30	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/24/17 22:30	1
Toluene	**1.1**	**J**	5.0	1.0	ug/L			10/24/17 22:30	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/24/17 22:30	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/24/17 22:30	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/24/17 22:30	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/24/17 22:30	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			10/24/17 22:30	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/24/17 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*81 - 118*		*10/24/17 22:30*	*1*
4-Bromofluorobenzene (Surr)	*97*		*85 - 114*		*10/24/17 22:30*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 119*		*10/24/17 22:30*	*1*
Toluene-d8 (Surr)	*101*		*89 - 112*		*10/24/17 22:30*	*1*

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

Client Sample ID: 6MW2506 **Lab Sample ID: 280-102516-6**
Date Collected: 10/17/17 13:40 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/25/17 20:22	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/25/17 20:22	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/25/17 20:22	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/25/17 20:22	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/25/17 20:22	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/25/17 20:22	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/25/17 20:22	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/25/17 20:22	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/25/17 20:22	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/25/17 20:22	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/25/17 20:22	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/25/17 20:22	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/25/17 20:22	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/25/17 20:22	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/25/17 20:22	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/25/17 20:22	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/25/17 20:22	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/25/17 20:22	1

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

Client Sample ID: 6MW2506 **Lab Sample ID: 280-102516-6**
Date Collected: 10/17/17 13:40 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/25/17 20:22	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/25/17 20:22	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/25/17 20:22	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/25/17 20:22	1
Acetone	10	U	20	6.7	ug/L			10/25/17 20:22	1
Benzene	1.0	U	5.0	0.25	ug/L			10/25/17 20:22	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/25/17 20:22	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/25/17 20:22	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/25/17 20:22	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/25/17 20:22	1
Bromomethane	2.0	U	10	0.40	ug/L			10/25/17 20:22	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/25/17 20:22	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/25/17 20:22	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/25/17 20:22	1
Chloroethane	1.0	U	10	0.38	ug/L			10/25/17 20:22	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/25/17 20:22	1
Chloromethane	2.0	U	10	0.55	ug/L			10/25/17 20:22	1
cis-1,2-Dichloroethene	**2.6**	**J**	5.0	0.16	ug/L			10/25/17 20:22	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/25/17 20:22	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/25/17 20:22	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/25/17 20:22	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/25/17 20:22	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/25/17 20:22	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/25/17 20:22	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/25/17 20:22	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/25/17 20:22	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/25/17 20:22	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/25/17 20:22	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/25/17 20:22	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/25/17 20:22	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/25/17 20:22	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/25/17 20:22	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 20:22	1
Styrene	1.0	U	5.0	0.35	ug/L			10/25/17 20:22	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 20:22	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/25/17 20:22	1
Toluene	1.0	U	5.0	1.0	ug/L			10/25/17 20:22	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/25/17 20:22	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/25/17 20:22	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/25/17 20:22	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/25/17 20:22	1
Vinyl chloride	**14**		5.0	0.43	ug/L			10/25/17 20:22	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/25/17 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*81 - 118*		*10/25/17 20:22*	*1*
4-Bromofluorobenzene (Surr)	*92*		*85 - 114*		*10/25/17 20:22*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*10/25/17 20:22*	*1*
Toluene-d8 (Surr)	*103*		*89 - 112*		*10/25/17 20:22*	*1*

General Chemistry

Client Sample ID: 6MW2006 **Lab Sample ID: 280-102516-1**
Date Collected: 10/17/17 10:00 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	3.5		1.0	0.16	mg/L			10/25/17 16:52	1

Client Sample ID: 6MW2206 **Lab Sample ID: 280-102516-3**
Date Collected: 10/17/17 11:10 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	50		2.0	0.31	mg/L			10/26/17 23:23	2

Client Sample ID: 6MW2306 **Lab Sample ID: 280-102516-4**
Date Collected: 10/17/17 11:55 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	5.1		1.0	0.16	mg/L			10/25/17 17:55	1

Client Sample ID: 6MW2406 **Lab Sample ID: 280-102516-5**
Date Collected: 10/17/17 12:40 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	6.9		1.0	0.16	mg/L			10/25/17 18:13	1

Client Sample ID: 6MW2506 **Lab Sample ID: 280-102516-6**
Date Collected: 10/17/17 13:40 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	4.1		1.0	0.16	mg/L			10/25/17 18:28	1

Client Sample ID: 6MW2606 **Lab Sample ID: 280-102516-7**
Date Collected: 10/17/17 14:25 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	4.1		1.0	0.16	mg/L			10/25/17 18:43	1

Default Detection Limits

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

TestAmerica Job ID: 280-102516-1

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.
Project/Site: Stratton ANGB, NY (Schenectady)

TestAmerica Job ID: 280-102516-1

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: Stratton ANGB, NY (Schenectady)

TestAmerica Job ID: 280-102516-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(81-118)	(85-114)	(80-119)	(89-112)
280-102516-1	6MW2006	115	91	110	96
280-102516-1 MS	6MW2006MS	106	98	99	98
280-102516-1 MSD	6MW2006MSD	108	106	103	104
280-102516-2	6MW2006D	118	100	113	109
280-102516-3	6MW2206	115	96	109	98
280-102516-4	6MW2306	115	92	109	100
280-102516-5	6MW2406	111	90	104	98
280-102516-6 - RA	6MW2506	115	92	108	103
280-102516-7	6MW2606	114	90	109	101
280-102516-7 MS	6MW2606	106	97	99	98
280-102516-7 MSD	6MW2606	107	99	100	99
280-102516-8	TB07	100	93	99	97
280-102516-9	FB03	111	97	104	101
LCS 160-333745/4	Lab Control Sample	101	104	96	101
LCS 160-333931/4	Lab Control Sample	102	101	96	103
LCSD 160-333745/5	Lab Control Sample Dup	100	103	97	103
LCSD 160-333931/5	Lab Control Sample Dup	102	104	97	103
MB 160-333745/7	Method Blank	106	97	101	102
MB 160-333931/7	Method Blank	109	97	102	103

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 160-333745/7
Matrix: Water
Analysis Batch: 333745

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			10/24/17 21:41	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/24/17 21:41	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/24/17 21:41	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/24/17 21:41	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/24/17 21:41	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/24/17 21:41	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/24/17 21:41	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/24/17 21:41	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/24/17 21:41	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/24/17 21:41	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/24/17 21:41	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/24/17 21:41	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/24/17 21:41	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/24/17 21:41	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/24/17 21:41	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/24/17 21:41	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/24/17 21:41	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/24/17 21:41	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/24/17 21:41	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/24/17 21:41	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/24/17 21:41	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/24/17 21:41	1
Acetone	10	U	20	6.7	ug/L			10/24/17 21:41	1
Benzene	1.0	U	5.0	0.25	ug/L			10/24/17 21:41	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/24/17 21:41	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/24/17 21:41	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/24/17 21:41	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/24/17 21:41	1
Bromomethane	2.0	U	10	0.40	ug/L			10/24/17 21:41	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/24/17 21:41	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/24/17 21:41	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/24/17 21:41	1
Chloroethane	1.0	U	10	0.38	ug/L			10/24/17 21:41	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/24/17 21:41	1
Chloromethane	2.0	U	10	0.55	ug/L			10/24/17 21:41	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			10/24/17 21:41	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/24/17 21:41	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/24/17 21:41	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/24/17 21:41	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/24/17 21:41	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/24/17 21:41	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/24/17 21:41	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/24/17 21:41	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/24/17 21:41	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/24/17 21:41	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/24/17 21:41	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/24/17 21:41	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/24/17 21:41	1

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

Lab Sample ID: MB 160-333745/7
Matrix: Water
Analysis Batch: 333745

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			10/24/17 21:41	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/24/17 21:41	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/24/17 21:41	1
Styrene	1.0	U	5.0	0.35	ug/L			10/24/17 21:41	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/24/17 21:41	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/24/17 21:41	1
Toluene	1.0	U	5.0	1.0	ug/L			10/24/17 21:41	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/24/17 21:41	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/24/17 21:41	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/24/17 21:41	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/24/17 21:41	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			10/24/17 21:41	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/24/17 21:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*81 - 118*		*10/24/17 21:41*	*1*
4-Bromofluorobenzene (Surr)	*97*		*85 - 114*		*10/24/17 21:41*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 119*		*10/24/17 21:41*	*1*
Toluene-d8 (Surr)	*102*		*89 - 112*		*10/24/17 21:41*	*1*

Lab Sample ID: LCS 160-333745/4
Matrix: Water
Analysis Batch: 333745

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	51.9		ug/L		104	78 - 124
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	74 - 131
1,1,2,2-Tetrachloroethane	50.0	51.6		ug/L		103	71 - 121
1,1,2-Trichloroethane	50.0	52.1		ug/L		104	80 - 119
1,1-Dichloroethane	50.0	50.9		ug/L		102	77 - 125
1,1-Dichloroethene	50.0	51.5		ug/L		103	71 - 131
1,1-Dichloropropene	50.0	52.9		ug/L		106	79 - 125
1,2,3-Trichlorobenzene	50.0	57.6		ug/L		115	69 - 129
1,2,3-Trichloropropane	50.0	52.7		ug/L		105	73 - 122
1,2,4-Trimethylbenzene	50.0	56.2		ug/L		112	76 - 124
1,2-Dibromo-3-Chloropropane	50.0	47.0		ug/L		94	62 - 128
1,2-Dibromoethane	50.0	52.5		ug/L		105	80 - 120
1,2-Dichloroethane	50.0	53.2		ug/L		106	73 - 128
1,2-Dichloropropane	50.0	53.8		ug/L		108	78 - 122
1,3,5-Trimethylbenzene	50.0	57.1		ug/L		114	75 - 124
1,3-Dichloropropane	50.0	52.7		ug/L		105	80 - 119
2,2-Dichloropropane	50.0	55.5		ug/L		111	60 - 139
2-Butanone (MEK)	50.0	61.5		ug/L		123	56 - 143
2-Chlorotoluene	50.0	55.1		ug/L		110	79 - 122
2-Hexanone	50.0	50.6		ug/L		101	57 - 139
4-Chlorotoluene	50.0	55.3		ug/L		111	78 - 122
4-Methyl-2-pentanone (MIBK)	50.0	52.3		ug/L		105	67 - 130
Acetone	50.0	50.1		ug/L		100	39 - 160

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

Lab Sample ID: LCS 160-333745/4
Matrix: Water
Analysis Batch: 333745

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	49.5		ug/L		99	79 - 120
Bromobenzene	50.0	54.8		ug/L		110	80 - 120
Bromochloromethane	50.0	48.4		ug/L		97	78 - 123
Bromodichloromethane	50.0	53.3		ug/L		107	79 - 125
Bromoform	50.0	56.2		ug/L		112	66 - 130
Bromomethane	50.0	43.3		ug/L		87	53 - 141
Carbon disulfide	50.0	51.4		ug/L		103	64 - 133
Carbon tetrachloride	50.0	52.1		ug/L		104	72 - 136
Chlorobenzene	50.0	51.1		ug/L		102	82 - 118
Chloroethane	50.0	48.0		ug/L		96	60 - 138
Chloroform	50.0	50.8		ug/L		102	79 - 124
Chloromethane	50.0	59.7		ug/L		119	50 - 139
cis-1,2-Dichloroethene	50.0	50.6		ug/L		101	78 - 123
cis-1,3-Dichloropropene	50.0	49.3		ug/L		99	75 - 124
Dibromochloromethane	50.0	51.9		ug/L		104	74 - 126
Dibromomethane	50.0	50.8		ug/L		102	79 - 123
Dichlorodifluoromethane	50.0	53.4		ug/L		107	32 - 152
Ethylbenzene	50.0	55.1		ug/L		110	79 - 121
Isopropylbenzene	50.0	57.9		ug/L		116	72 - 131
m,p-Xylenes	50.0	52.4		ug/L		105	80 - 121
Methyl tert-butyl ether	50.0	49.5		ug/L		99	71 - 124
Methylene Chloride	50.0	48.8		ug/L		98	74 - 124
Naphthalene	50.0	52.1		ug/L		104	61 - 128
n-Butylbenzene	50.0	57.7		ug/L		115	75 - 128
N-Propylbenzene	50.0	57.6		ug/L		115	76 - 126
o-Xylene	50.0	51.0		ug/L		102	78 - 122
p-Isopropyltoluene	50.0	56.6		ug/L		113	77 - 127
sec-Butylbenzene	50.0	55.6		ug/L		111	77 - 126
Styrene	50.0	53.9		ug/L		108	78 - 123
tert-Butylbenzene	50.0	56.3		ug/L		113	78 - 124
Tetrachloroethene	50.0	51.9		ug/L		104	74 - 129
Toluene	50.0	51.8		ug/L		104	80 - 121
trans-1,2-Dichloroethene	50.0	48.5		ug/L		97	75 - 124
trans-1,3-Dichloropropene	50.0	49.7		ug/L		99	73 - 127
Trichloroethene	50.0	49.4		ug/L		99	79 - 123
Trichlorofluoromethane	50.0	55.0		ug/L		110	65 - 141
Vinyl chloride	50.0	49.6		ug/L		99	58 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*81 - 118*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*
Dibromofluoromethane (Surr)	*96*		*80 - 119*
Toluene-d8 (Surr)	*101*		*89 - 112*

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

Lab Sample ID: LCSD 160-333745/5
Matrix: Water
Analysis Batch: 333745

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	50.4		ug/L		101	78 - 124	3	20
1,1,1-Trichloroethane	50.0	53.1		ug/L		106	74 - 131	2	20
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/L		98	71 - 121	5	20
1,1,2-Trichloroethane	50.0	50.1		ug/L		100	80 - 119	4	20
1,1-Dichloroethane	50.0	50.8		ug/L		102	77 - 125	0	20
1,1-Dichloroethene	50.0	49.4		ug/L		99	71 - 131	4	20
1,1-Dichloropropene	50.0	52.2		ug/L		104	79 - 125	1	20
1,2,3-Trichlorobenzene	50.0	56.7		ug/L		113	69 - 129	2	20
1,2,3-Trichloropropane	50.0	50.6		ug/L		101	73 - 122	4	20
1,2,4-Trimethylbenzene	50.0	54.6		ug/L		109	76 - 124	3	20
1,2-Dibromo-3-Chloropropane	50.0	45.9		ug/L		92	62 - 128	2	20
1,2-Dibromoethane	50.0	50.1		ug/L		100	80 - 120	5	20
1,2-Dichloroethane	50.0	51.8		ug/L		104	73 - 128	3	20
1,2-Dichloropropane	50.0	52.9		ug/L		106	78 - 122	2	20
1,3,5-Trimethylbenzene	50.0	55.5		ug/L		111	75 - 124	3	20
1,3-Dichloropropane	50.0	51.1		ug/L		102	80 - 119	3	20
2,2-Dichloropropane	50.0	56.3		ug/L		113	60 - 139	1	20
2-Butanone (MEK)	50.0	59.3		ug/L		119	56 - 143	4	20
2-Chlorotoluene	50.0	56.4		ug/L		113	79 - 122	2	20
2-Hexanone	50.0	51.5		ug/L		103	57 - 139	2	20
4-Chlorotoluene	50.0	54.4		ug/L		109	78 - 122	2	20
4-Methyl-2-pentanone (MIBK)	50.0	51.5		ug/L		103	67 - 130	2	20
Acetone	50.0	48.3		ug/L		97	39 - 160	4	20
Benzene	50.0	49.0		ug/L		98	79 - 120	1	20
Bromobenzene	50.0	52.9		ug/L		106	80 - 120	4	20
Bromochloromethane	50.0	49.1		ug/L		98	78 - 123	2	20
Bromodichloromethane	50.0	52.9		ug/L		106	79 - 125	1	20
Bromoform	50.0	52.3		ug/L		105	66 - 130	7	20
Bromomethane	50.0	48.6		ug/L		97	53 - 141	12	20
Carbon disulfide	50.0	50.2		ug/L		100	64 - 133	2	20
Carbon tetrachloride	50.0	52.1		ug/L		104	72 - 136	0	20
Chlorobenzene	50.0	50.5		ug/L		101	82 - 118	1	20
Chloroethane	50.0	50.8		ug/L		102	60 - 138	6	20
Chloroform	50.0	50.0		ug/L		100	79 - 124	1	20
Chloromethane	50.0	55.5		ug/L		111	50 - 139	7	20
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	78 - 123	0	20
cis-1,3-Dichloropropene	50.0	48.9		ug/L		98	75 - 124	1	20
Dibromochloromethane	50.0	50.9		ug/L		102	74 - 126	2	20
Dibromomethane	50.0	50.9		ug/L		102	79 - 123	0	20
Dichlorodifluoromethane	50.0	52.2		ug/L		104	32 - 152	2	20
Ethylbenzene	50.0	55.6		ug/L		111	79 - 121	1	20
Isopropylbenzene	50.0	57.1		ug/L		114	72 - 131	2	20
m,p-Xylenes	50.0	51.5		ug/L		103	80 - 121	2	20
Methyl tert-butyl ether	50.0	50.5		ug/L		101	71 - 124	2	20
Methylene Chloride	50.0	48.0		ug/L		96	74 - 124	2	20
Naphthalene	50.0	51.6		ug/L		103	61 - 128	1	20
n-Butylbenzene	50.0	55.7		ug/L		111	75 - 128	3	20
N-Propylbenzene	50.0	56.2		ug/L		112	76 - 126	2	20

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

Lab Sample ID: LCSD 160-333745/5
Matrix: Water
Analysis Batch: 333745

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	50.6		ug/L		101	78 - 122	1	20
p-Isopropyltoluene			50.0	55.9		ug/L		112	77 - 127	1	20
sec-Butylbenzene			50.0	53.6		ug/L		107	77 - 126	4	20
Styrene			50.0	54.2		ug/L		108	78 - 123	0	20
tert-Butylbenzene			50.0	55.7		ug/L		111	78 - 124	1	20
Tetrachloroethene			50.0	50.7		ug/L		101	74 - 129	2	20
Toluene			50.0	51.3		ug/L		103	80 - 121	1	20
trans-1,2-Dichloroethene			50.0	49.6		ug/L		99	75 - 124	2	20
trans-1,3-Dichloropropene			50.0	50.1		ug/L		100	73 - 127	1	20
Trichloroethene			50.0	49.0		ug/L		98	79 - 123	1	20
Trichlorofluoromethane			50.0	52.7		ug/L		105	65 - 141	4	20
Vinyl chloride			50.0	49.4		ug/L		99	58 - 137	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*
Dibromofluoromethane (Surr)	*97*		*80 - 119*
Toluene-d8 (Surr)	*103*		*89 - 112*

Lab Sample ID: 280-102516-1 MS
Matrix: Water
Analysis Batch: 333745

Client Sample ID: 6MW2006MS
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	50.2		ug/L		100	78 - 124
1,1,1-Trichloroethane	1.0	U	50.0	51.6		ug/L		103	74 - 131
1,1,2,2-Tetrachloroethane	2.0	U	50.0	48.4		ug/L		97	71 - 121
1,1,2-Trichloroethane	1.0	U	50.0	50.0		ug/L		100	80 - 119
1,1-Dichloroethane	1.0	U	50.0	50.4		ug/L		101	77 - 125
1,1-Dichloroethene	1.0	U	50.0	47.9		ug/L		96	71 - 131
1,1-Dichloropropene	1.0	U	50.0	50.4		ug/L		101	79 - 125
1,2,3-Trichlorobenzene	2.0	U	50.0	53.5		ug/L		107	69 - 129
1,2,3-Trichloropropane	1.0	U	50.0	49.5		ug/L		99	73 - 122
1,2,4-Trimethylbenzene	2.0	U	50.0	52.5		ug/L		105	76 - 124
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	42.9		ug/L		86	62 - 128
1,2-Dibromoethane	2.0	U	50.0	50.3		ug/L		101	80 - 120
1,2-Dichloroethane	1.0	U	50.0	54.2		ug/L		108	73 - 128
1,2-Dichloropropane	1.0	U	50.0	52.7		ug/L		105	78 - 122
1,3,5-Trimethylbenzene	2.0	U	50.0	53.0		ug/L		106	75 - 124
1,3-Dichloropropane	1.0	U	50.0	51.1		ug/L		102	80 - 119
2,2-Dichloropropane	2.0	U	50.0	56.8		ug/L		114	60 - 139
2-Butanone (MEK)	5.0	U	50.0	57.6		ug/L		115	56 - 143
2-Chlorotoluene	2.0	U	50.0	52.7		ug/L		105	79 - 122
2-Hexanone	2.0	U	50.0	49.3		ug/L		99	57 - 139
4-Chlorotoluene	2.0	U	50.0	52.8		ug/L		106	78 - 122
4-Methyl-2-pentanone (MIBK)	2.0	U	50.0	49.6		ug/L		99	67 - 130
Acetone	10	U	50.0	46.8		ug/L		94	39 - 160
Benzene	1.0	U	50.0	49.2		ug/L		98	79 - 120

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

Lab Sample ID: 280-102516-1 MS
Matrix: Water
Analysis Batch: 333745

Client Sample ID: 6MW2006MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2.0	U	50.0	51.7		ug/L		103	80 - 120
Bromochloromethane	2.0	U	50.0	49.6		ug/L		99	78 - 123
Bromodichloromethane	2.0	U	50.0	54.0		ug/L		108	79 - 125
Bromoform	1.0	U	50.0	52.7		ug/L		105	66 - 130
Bromomethane	2.0	U	50.0	44.1		ug/L		88	53 - 141
Carbon disulfide	1.0	U	50.0	50.7		ug/L		101	64 - 133
Carbon tetrachloride	1.0	U	50.0	49.8		ug/L		100	72 - 136
Chlorobenzene	1.0	U	50.0	49.7		ug/L		99	82 - 118
Chloroethane	1.0	U	50.0	55.1		ug/L		110	60 - 138
Chloroform	1.0	U	50.0	49.5		ug/L		99	79 - 124
Chloromethane	2.0	U	50.0	44.3		ug/L		89	50 - 139
cis-1,2-Dichloroethene	1.0	U	50.0	51.6		ug/L		103	78 - 123
cis-1,3-Dichloropropene	1.0	U	50.0	46.7		ug/L		93	75 - 124
Dibromochloromethane	1.0	U	50.0	51.1		ug/L		102	74 - 126
Dibromomethane	2.0	U	50.0	51.5		ug/L		103	79 - 123
Dichlorodifluoromethane	2.0	U	50.0	49.5		ug/L		99	32 - 152
Ethylbenzene	1.0	U	50.0	55.4		ug/L		111	79 - 121
Isopropylbenzene	2.0	U	50.0	53.1		ug/L		106	72 - 131
m,p-Xylenes	1.0	U	50.0	49.6		ug/L		99	80 - 121
Methyl tert-butyl ether	2.0	U	50.0	50.1		ug/L		100	71 - 124
Methylene Chloride	5.0	U	50.0	48.8		ug/L		98	74 - 124
Naphthalene	2.0	U	50.0	46.2		ug/L		92	61 - 128
n-Butylbenzene	2.0	U	50.0	53.7		ug/L		107	75 - 128
N-Propylbenzene	2.0	U	50.0	53.9		ug/L		108	76 - 126
o-Xylene	1.0	U	50.0	48.9		ug/L		98	78 - 122
p-Isopropyltoluene	2.0	U	50.0	52.6		ug/L		105	77 - 127
sec-Butylbenzene	2.0	U	50.0	51.2		ug/L		102	77 - 126
Styrene	1.0	U	50.0	54.2		ug/L		108	78 - 123
tert-Butylbenzene	2.0	U	50.0	52.2		ug/L		104	78 - 124
Tetrachloroethene	1.0	U	50.0	49.9		ug/L		100	74 - 129
Toluene	1.0	U	50.0	49.6		ug/L		99	80 - 121
trans-1,2-Dichloroethene	1.0	U	50.0	47.7		ug/L		95	75 - 124
trans-1,3-Dichloropropene	1.0	U	50.0	48.8		ug/L		98	73 - 127
Trichloroethene	1.0	U	50.0	49.0		ug/L		98	79 - 123
Trichlorofluoromethane	2.0	U	50.0	53.6		ug/L		107	65 - 141
Vinyl chloride	1.0	U	50.0	42.9		ug/L		86	58 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*81 - 118*
4-Bromofluorobenzene (Surr)	*98*		*85 - 114*
Dibromofluoromethane (Surr)	*99*		*80 - 119*
Toluene-d8 (Surr)	*98*		*89 - 112*

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

Lab Sample ID: 280-102516-1 MSD
Matrix: Water
Analysis Batch: 333745

Client Sample ID: 6MW2006MSD
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	52.7		ug/L		105	78 - 124	5	20
1,1,1-Trichloroethane	1.0	U	50.0	56.3		ug/L		113	74 - 131	9	20
1,1,2,2-Tetrachloroethane	2.0	U	50.0	50.4		ug/L		101	71 - 121	4	20
1,1,2-Trichloroethane	1.0	U	50.0	52.3		ug/L		105	80 - 119	4	20
1,1-Dichloroethane	1.0	U	50.0	54.2		ug/L		108	77 - 125	7	20
1,1-Dichloroethene	1.0	U	50.0	50.7		ug/L		101	71 - 131	6	20
1,1-Dichloropropene	1.0	U	50.0	55.1		ug/L		110	79 - 125	9	20
1,2,3-Trichlorobenzene	2.0	U	50.0	59.8		ug/L		120	69 - 129	11	20
1,2,3-Trichloropropane	1.0	U	50.0	52.7		ug/L		105	73 - 122	6	20
1,2,4-Trimethylbenzene	2.0	U	50.0	56.2		ug/L		112	76 - 124	7	20
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	47.2		ug/L		94	62 - 128	10	20
1,2-Dibromoethane	2.0	U	50.0	55.0		ug/L		110	80 - 120	9	20
1,2-Dichloroethane	1.0	U	50.0	56.1		ug/L		112	73 - 128	4	20
1,2-Dichloropropane	1.0	U	50.0	57.5		ug/L		115	78 - 122	9	20
1,3,5-Trimethylbenzene	2.0	U	50.0	56.2		ug/L		112	75 - 124	6	20
1,3-Dichloropropane	1.0	U	50.0	55.5		ug/L		111	80 - 119	8	20
2,2-Dichloropropane	2.0	U	50.0	61.8		ug/L		124	60 - 139	8	20
2-Butanone (MEK)	5.0	U	50.0	62.2		ug/L		124	56 - 143	8	20
2-Chlorotoluene	2.0	U	50.0	57.3		ug/L		115	79 - 122	8	20
2-Hexanone	2.0	U	50.0	53.5		ug/L		107	57 - 139	8	20
4-Chlorotoluene	2.0	U	50.0	55.2		ug/L		110	78 - 122	4	20
4-Methyl-2-pentanone (MIBK)	2.0	U	50.0	53.4		ug/L		107	67 - 130	7	20
Acetone	10	U	50.0	52.6		ug/L		105	39 - 160	12	20
Benzene	1.0	U	50.0	52.7		ug/L		105	79 - 120	7	20
Bromobenzene	2.0	U	50.0	55.4		ug/L		111	80 - 120	7	20
Bromochloromethane	2.0	U	50.0	49.9		ug/L		100	78 - 123	1	20
Bromodichloromethane	2.0	U	50.0	56.6		ug/L		113	79 - 125	5	20
Bromoform	1.0	U	50.0	54.3		ug/L		109	66 - 130	3	20
Bromomethane	2.0	U	50.0	48.6		ug/L		97	53 - 141	10	20
Carbon disulfide	1.0	U	50.0	54.0		ug/L		108	64 - 133	6	20
Carbon tetrachloride	1.0	U	50.0	54.0		ug/L		108	72 - 136	8	20
Chlorobenzene	1.0	U	50.0	53.1		ug/L		106	82 - 118	7	20
Chloroethane	1.0	U	50.0	57.3		ug/L		115	60 - 138	4	20
Chloroform	1.0	U	50.0	54.2		ug/L		108	79 - 124	9	20
Chloromethane	2.0	U	50.0	48.2		ug/L		96	50 - 139	8	20
cis-1,2-Dichloroethene	1.0	U	50.0	55.7		ug/L		111	78 - 123	8	20
cis-1,3-Dichloropropene	1.0	U	50.0	48.8		ug/L		98	75 - 124	4	20
Dibromochloromethane	1.0	U	50.0	54.2		ug/L		108	74 - 126	6	20
Dibromomethane	2.0	U	50.0	54.3		ug/L		109	79 - 123	5	20
Dichlorodifluoromethane	2.0	U	50.0	51.5		ug/L		103	32 - 152	4	20
Ethylbenzene	1.0	U	50.0	58.5		ug/L		117	79 - 121	5	20
Isopropylbenzene	2.0	U	50.0	57.8		ug/L		116	72 - 131	9	20
m,p-Xylenes	1.0	U	50.0	53.8		ug/L		108	80 - 121	8	20
Methyl tert-butyl ether	2.0	U	50.0	54.1		ug/L		108	71 - 124	8	20
Methylene Chloride	5.0	U	50.0	50.5		ug/L		101	74 - 124	3	20
Naphthalene	2.0	U	50.0	52.6		ug/L		105	61 - 128	13	20
n-Butylbenzene	2.0	U	50.0	56.5		ug/L		113	75 - 128	5	20
N-Propylbenzene	2.0	U	50.0	57.2		ug/L		114	76 - 126	6	20

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

Lab Sample ID: 280-102516-1 MSD
Matrix: Water
Analysis Batch: 333745

Client Sample ID: 6MW2006MSD
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	52.0		ug/L		104	78 - 122	6	20
p-Isopropyltoluene	2.0	U	50.0	56.3		ug/L		113	77 - 127	7	20
sec-Butylbenzene	2.0	U	50.0	54.2		ug/L		108	77 - 126	6	20
Styrene	1.0	U	50.0	56.1		ug/L		112	78 - 123	3	20
tert-Butylbenzene	2.0	U	50.0	55.9		ug/L		112	78 - 124	7	20
Tetrachloroethene	1.0	U	50.0	52.5		ug/L		105	74 - 129	5	20
Toluene	1.0	U	50.0	52.4		ug/L		105	80 - 121	5	20
trans-1,2-Dichloroethene	1.0	U	50.0	51.4		ug/L		103	75 - 124	7	20
trans-1,3-Dichloropropene	1.0	U	50.0	51.2		ug/L		102	73 - 127	5	20
Trichloroethene	1.0	U	50.0	52.8		ug/L		106	79 - 123	7	20
Trichlorofluoromethane	2.0	U	50.0	56.0		ug/L		112	65 - 141	4	20
Vinyl chloride	1.0	U	50.0	48.4		ug/L		97	58 - 137	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*81 - 118*
4-Bromofluorobenzene (Surr)	*106*		*85 - 114*
Dibromofluoromethane (Surr)	*103*		*80 - 119*
Toluene-d8 (Surr)	*104*		*89 - 112*

Lab Sample ID: MB 160-333931/7
Matrix: Water
Analysis Batch: 333931

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			10/25/17 17:26	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/25/17 17:26	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/25/17 17:26	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/25/17 17:26	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/25/17 17:26	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/25/17 17:26	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/25/17 17:26	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/25/17 17:26	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/25/17 17:26	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/25/17 17:26	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/25/17 17:26	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/25/17 17:26	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/25/17 17:26	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/25/17 17:26	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/25/17 17:26	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/25/17 17:26	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/25/17 17:26	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/25/17 17:26	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/25/17 17:26	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/25/17 17:26	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/25/17 17:26	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/25/17 17:26	1
Acetone	10	U	20	6.7	ug/L			10/25/17 17:26	1
Benzene	1.0	U	5.0	0.25	ug/L			10/25/17 17:26	1

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

Lab Sample ID: MB 160-333931/7
Matrix: Water
Analysis Batch: 333931

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

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/25/17 17:26	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/25/17 17:26	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/25/17 17:26	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/25/17 17:26	1
Bromomethane	2.0	U	10	0.40	ug/L			10/25/17 17:26	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/25/17 17:26	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/25/17 17:26	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/25/17 17:26	1
Chloroethane	1.0	U	10	0.38	ug/L			10/25/17 17:26	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/25/17 17:26	1
Chloromethane	2.0	U	10	0.55	ug/L			10/25/17 17:26	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			10/25/17 17:26	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/25/17 17:26	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/25/17 17:26	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/25/17 17:26	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/25/17 17:26	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/25/17 17:26	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/25/17 17:26	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/25/17 17:26	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/25/17 17:26	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/25/17 17:26	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/25/17 17:26	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/25/17 17:26	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/25/17 17:26	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/25/17 17:26	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/25/17 17:26	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 17:26	1
Styrene	1.0	U	5.0	0.35	ug/L			10/25/17 17:26	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 17:26	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			10/25/17 17:26	1
Toluene	1.0	U	5.0	1.0	ug/L			10/25/17 17:26	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/25/17 17:26	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/25/17 17:26	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			10/25/17 17:26	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/25/17 17:26	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			10/25/17 17:26	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/25/17 17:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*81 - 118*		*10/25/17 17:26*	*1*
4-Bromofluorobenzene (Surr)	*97*		*85 - 114*		*10/25/17 17:26*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*10/25/17 17:26*	*1*
Toluene-d8 (Surr)	*103*		*89 - 112*		*10/25/17 17:26*	*1*

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

Lab Sample ID: LCS 160-333931/4
Matrix: Water
Analysis Batch: 333931

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	51.5		ug/L		103	78 - 124
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	74 - 131
1,1,2,2-Tetrachloroethane	50.0	50.1		ug/L		100	71 - 121
1,1,2-Trichloroethane	50.0	49.8		ug/L		100	80 - 119
1,1-Dichloroethane	50.0	50.3		ug/L		101	77 - 125
1,1-Dichloroethene	50.0	49.5		ug/L		99	71 - 131
1,1-Dichloropropene	50.0	51.9		ug/L		104	79 - 125
1,2,3-Trichlorobenzene	50.0	56.3		ug/L		113	69 - 129
1,2,3-Trichloropropane	50.0	50.4		ug/L		101	73 - 122
1,2,4-Trimethylbenzene	50.0	55.5		ug/L		111	76 - 124
1,2-Dibromo-3-Chloropropane	50.0	46.7		ug/L		93	62 - 128
1,2-Dibromoethane	50.0	51.2		ug/L		102	80 - 120
1,2-Dichloroethane	50.0	52.0		ug/L		104	73 - 128
1,2-Dichloropropane	50.0	52.3		ug/L		105	78 - 122
1,3,5-Trimethylbenzene	50.0	55.3		ug/L		111	75 - 124
1,3-Dichloropropane	50.0	51.4		ug/L		103	80 - 119
2,2-Dichloropropane	50.0	55.5		ug/L		111	60 - 139
2-Butanone (MEK)	50.0	58.2		ug/L		116	56 - 143
2-Chlorotoluene	50.0	55.6		ug/L		111	79 - 122
2-Hexanone	50.0	50.3		ug/L		101	57 - 139
4-Chlorotoluene	50.0	54.8		ug/L		110	78 - 122
4-Methyl-2-pentanone (MIBK)	50.0	50.5		ug/L		101	67 - 130
Acetone	50.0	48.3		ug/L		97	39 - 160
Benzene	50.0	48.6		ug/L		97	79 - 120
Bromobenzene	50.0	53.2		ug/L		106	80 - 120
Bromochloromethane	50.0	47.6		ug/L		95	78 - 123
Bromodichloromethane	50.0	51.9		ug/L		104	79 - 125
Bromoform	50.0	53.5		ug/L		107	66 - 130
Bromomethane	50.0	51.6		ug/L		103	53 - 141
Carbon disulfide	50.0	50.3		ug/L		101	64 - 133
Carbon tetrachloride	50.0	51.9		ug/L		104	72 - 136
Chlorobenzene	50.0	51.6		ug/L		103	82 - 118
Chloroethane	50.0	51.8		ug/L		104	60 - 138
Chloroform	50.0	49.3		ug/L		99	79 - 124
Chloromethane	50.0	53.8		ug/L		108	50 - 139
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	78 - 123
cis-1,3-Dichloropropene	50.0	47.5		ug/L		95	75 - 124
Dibromochloromethane	50.0	51.3		ug/L		103	74 - 126
Dibromomethane	50.0	49.1		ug/L		98	79 - 123
Dichlorodifluoromethane	50.0	49.3		ug/L		99	32 - 152
Ethylbenzene	50.0	55.9		ug/L		112	79 - 121
Isopropylbenzene	50.0	56.8		ug/L		114	72 - 131
m,p-Xylenes	50.0	51.7		ug/L		103	80 - 121
Methyl tert-butyl ether	50.0	49.0		ug/L		98	71 - 124
Methylene Chloride	50.0	47.1		ug/L		94	74 - 124
Naphthalene	50.0	51.6		ug/L		103	61 - 128
n-Butylbenzene	50.0	56.7		ug/L		113	75 - 128
N-Propylbenzene	50.0	56.8		ug/L		114	76 - 126

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

Lab Sample ID: LCS 160-333931/4
Matrix: Water
Analysis Batch: 333931

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	51.2		ug/L		102	78 - 122
p-Isopropyltoluene	50.0	55.8		ug/L		112	77 - 127
sec-Butylbenzene	50.0	54.7		ug/L		109	77 - 126
Styrene	50.0	55.0		ug/L		110	78 - 123
tert-Butylbenzene	50.0	55.8		ug/L		112	78 - 124
Tetrachloroethene	50.0	51.3		ug/L		103	74 - 129
Toluene	50.0	51.2		ug/L		102	80 - 121
trans-1,2-Dichloroethene	50.0	47.8		ug/L		96	75 - 124
trans-1,3-Dichloropropene	50.0	49.2		ug/L		98	73 - 127
Trichloroethene	50.0	49.5		ug/L		99	79 - 123
Trichlorofluoromethane	50.0	53.9		ug/L		108	65 - 141
Vinyl chloride	50.0	48.6		ug/L		97	58 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*
4-Bromofluorobenzene (Surr)	*101*		*85 - 114*
Dibromofluoromethane (Surr)	*96*		*80 - 119*
Toluene-d8 (Surr)	*103*		*89 - 112*

Lab Sample ID: LCSD 160-333931/5
Matrix: Water
Analysis Batch: 333931

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	51.6		ug/L		103	78 - 124	0	20
1,1,1-Trichloroethane	50.0	53.3		ug/L		107	74 - 131	4	20
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	71 - 121	0	20
1,1,2-Trichloroethane	50.0	50.5		ug/L		101	80 - 119	1	20
1,1-Dichloroethane	50.0	51.2		ug/L		102	77 - 125	2	20
1,1-Dichloroethene	50.0	50.6		ug/L		101	71 - 131	2	20
1,1-Dichloropropene	50.0	53.6		ug/L		107	79 - 125	3	20
1,2,3-Trichlorobenzene	50.0	57.2		ug/L		114	69 - 129	2	20
1,2,3-Trichloropropane	50.0	51.3		ug/L		103	73 - 122	2	20
1,2,4-Trimethylbenzene	50.0	55.6		ug/L		111	76 - 124	0	20
1,2-Dibromo-3-Chloropropane	50.0	46.3		ug/L		93	62 - 128	1	20
1,2-Dibromoethane	50.0	51.2		ug/L		102	80 - 120	0	20
1,2-Dichloroethane	50.0	52.6		ug/L		105	73 - 128	1	20
1,2-Dichloropropane	50.0	53.5		ug/L		107	78 - 122	2	20
1,3,5-Trimethylbenzene	50.0	56.5		ug/L		113	75 - 124	2	20
1,3-Dichloropropane	50.0	51.7		ug/L		103	80 - 119	1	20
2,2-Dichloropropane	50.0	59.5		ug/L		119	60 - 139	7	20
2-Butanone (MEK)	50.0	56.3		ug/L		113	56 - 143	3	20
2-Chlorotoluene	50.0	56.7		ug/L		113	79 - 122	2	20
2-Hexanone	50.0	50.3		ug/L		101	57 - 139	0	20
4-Chlorotoluene	50.0	55.1		ug/L		110	78 - 122	1	20
4-Methyl-2-pentanone (MIBK)	50.0	51.1		ug/L		102	67 - 130	1	20
Acetone	50.0	46.4		ug/L		93	39 - 160	4	20
Benzene	50.0	49.4		ug/L		99	79 - 120	2	20

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

Lab Sample ID: LCSD 160-333931/5
Matrix: Water
Analysis Batch: 333931

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
Bromobenzene			50.0	53.9		ug/L		108	80 - 120	1	20
Bromochloromethane			50.0	47.1		ug/L		94	78 - 123	1	20
Bromodichloromethane			50.0	52.3		ug/L		105	79 - 125	1	20
Bromoform			50.0	52.5		ug/L		105	66 - 130	2	20
Bromomethane			50.0	52.7		ug/L		105	53 - 141	2	20
Carbon disulfide			50.0	51.1		ug/L		102	64 - 133	1	20
Carbon tetrachloride			50.0	53.1		ug/L		106	72 - 136	2	20
Chlorobenzene			50.0	51.7		ug/L		103	82 - 118	0	20
Chloroethane			50.0	52.2		ug/L		104	60 - 138	1	20
Chloroform			50.0	50.6		ug/L		101	79 - 124	3	20
Chloromethane			50.0	53.9		ug/L		108	50 - 139	0	20
cis-1,2-Dichloroethene			50.0	50.7		ug/L		101	78 - 123	2	20
cis-1,3-Dichloropropene			50.0	48.3		ug/L		97	75 - 124	2	20
Dibromochloromethane			50.0	50.6		ug/L		101	74 - 126	1	20
Dibromomethane			50.0	49.4		ug/L		99	79 - 123	1	20
Dichlorodifluoromethane			50.0	48.4		ug/L		97	32 - 152	2	20
Ethylbenzene			50.0	56.7		ug/L		113	79 - 121	1	20
Isopropylbenzene			50.0	58.1		ug/L		116	72 - 131	2	20
m,p-Xylenes			50.0	51.8		ug/L		104	80 - 121	0	20
Methyl tert-butyl ether			50.0	50.0		ug/L		100	71 - 124	2	20
Methylene Chloride			50.0	48.0		ug/L		96	74 - 124	2	20
Naphthalene			50.0	52.2		ug/L		104	61 - 128	1	20
n-Butylbenzene			50.0	57.2		ug/L		114	75 - 128	1	20
N-Propylbenzene			50.0	58.1		ug/L		116	76 - 126	2	20
o-Xylene			50.0	51.2		ug/L		102	78 - 122	0	20
p-Isopropyltoluene			50.0	57.1		ug/L		114	77 - 127	2	20
sec-Butylbenzene			50.0	55.6		ug/L		111	77 - 126	2	20
Styrene			50.0	54.4		ug/L		109	78 - 123	1	20
tert-Butylbenzene			50.0	56.9		ug/L		114	78 - 124	2	20
Tetrachloroethene			50.0	52.2		ug/L		104	74 - 129	2	20
Toluene			50.0	51.4		ug/L		103	80 - 121	0	20
trans-1,2-Dichloroethene			50.0	49.1		ug/L		98	75 - 124	3	20
trans-1,3-Dichloropropene			50.0	49.8		ug/L		100	73 - 127	1	20
Trichloroethene			50.0	49.8		ug/L		100	79 - 123	1	20
Trichlorofluoromethane			50.0	53.7		ug/L		107	65 - 141	0	20
Vinyl chloride			50.0	49.0		ug/L		98	58 - 137	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*
Dibromofluoromethane (Surr)	*97*		*80 - 119*
Toluene-d8 (Surr)	*103*		*89 - 112*

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

Lab Sample ID: 280-102516-7 MS
Matrix: Water
Analysis Batch: 333931

Client Sample ID: 6MW2606
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	52.2		ug/L		104	78 - 124
1,1,1-Trichloroethane	1.0	U	50.0	58.5		ug/L		117	74 - 131
1,1,2,2-Tetrachloroethane	2.0	U	50.0	50.4		ug/L		101	71 - 121
1,1,2-Trichloroethane	1.0	U	50.0	52.3		ug/L		105	80 - 119
1,1-Dichloroethane	1.0	U	50.0	57.0		ug/L		114	77 - 125
1,1-Dichloroethene	1.0	U	50.0	56.6		ug/L		113	71 - 131
1,1-Dichloropropene	1.0	U	50.0	57.3		ug/L		115	79 - 125
1,2,3-Trichlorobenzene	2.0	U	50.0	55.5		ug/L		111	69 - 129
1,2,3-Trichloropropane	1.0	U	50.0	50.4		ug/L		101	73 - 122
1,2,4-Trimethylbenzene	2.0	U	50.0	54.9		ug/L		110	76 - 124
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	45.9		ug/L		92	62 - 128
1,2-Dibromoethane	2.0	U	50.0	51.5		ug/L		103	80 - 120
1,2-Dichloroethane	1.0	U	50.0	57.0		ug/L		114	73 - 128
1,2-Dichloropropane	1.0	U	50.0	58.4		ug/L		117	78 - 122
1,3,5-Trimethylbenzene	2.0	U	50.0	55.8		ug/L		112	75 - 124
1,3-Dichloropropane	1.0	U	50.0	52.1		ug/L		104	80 - 119
2,2-Dichloropropane	2.0	U	50.0	61.3		ug/L		123	60 - 139
2-Butanone (MEK)	5.0	U	50.0	57.8		ug/L		116	56 - 143
2-Chlorotoluene	2.0	U	50.0	56.0		ug/L		112	79 - 122
2-Hexanone	2.0	U	50.0	47.2		ug/L		94	57 - 139
4-Chlorotoluene	2.0	U	50.0	55.0		ug/L		110	78 - 122
4-Methyl-2-pentanone (MIBK)	2.0	U	50.0	48.7		ug/L		97	67 - 130
Acetone	10	U	50.0	46.7		ug/L		93	39 - 160
Benzene	1.0	U	50.0	54.9		ug/L		110	79 - 120
Bromobenzene	2.0	U	50.0	54.6		ug/L		109	80 - 120
Bromochloromethane	2.0	U	50.0	53.4		ug/L		107	78 - 123
Bromodichloromethane	2.0	U	50.0	57.2		ug/L		114	79 - 125
Bromoform	1.0	U	50.0	52.8		ug/L		106	66 - 130
Bromomethane	2.0	U	50.0	53.0		ug/L		106	53 - 141
Carbon disulfide	1.0	U	50.0	59.4		ug/L		119	64 - 133
Carbon tetrachloride	1.0	U	50.0	55.4		ug/L		111	72 - 136
Chlorobenzene	1.0	U	50.0	53.1		ug/L		106	82 - 118
Chloroethane	1.0	U	50.0	63.0		ug/L		126	60 - 138
Chloroform	1.0	U	50.0	54.8		ug/L		110	79 - 124
Chloromethane	2.0	U	50.0	50.7		ug/L		101	50 - 139
cis-1,2-Dichloroethene	2.3	J	50.0	59.9		ug/L		115	78 - 123
cis-1,3-Dichloropropene	1.0	U	50.0	49.6		ug/L		99	75 - 124
Dibromochloromethane	1.0	U	50.0	53.9		ug/L		108	74 - 126
Dibromomethane	2.0	U	50.0	55.1		ug/L		110	79 - 123
Dichlorodifluoromethane	2.0	U	50.0	58.3		ug/L		117	32 - 152
Ethylbenzene	1.0	U	50.0	56.8		ug/L		114	79 - 121
Isopropylbenzene	2.0	U	50.0	56.7		ug/L		113	72 - 131
m,p-Xylenes	1.0	U	50.0	52.5		ug/L		105	80 - 121
Methyl tert-butyl ether	2.0	U	50.0	53.8		ug/L		108	71 - 124
Methylene Chloride	5.0	U	50.0	54.5		ug/L		109	74 - 124
Naphthalene	2.0	U	50.0	46.8		ug/L		94	61 - 128
n-Butylbenzene	2.0	U	50.0	55.2		ug/L		110	75 - 128
N-Propylbenzene	2.0	U	50.0	57.0		ug/L		114	76 - 126

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

Lab Sample ID: 280-102516-7 MS
Matrix: Water
Analysis Batch: 333931

Client Sample ID: 6MW2606
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	1.0	U	50.0	51.4		ug/L		103	78 - 122
p-Isopropyltoluene	2.0	U	50.0	55.6		ug/L		111	77 - 127
sec-Butylbenzene	2.0	U	50.0	54.2		ug/L		108	77 - 126
Styrene	1.0	U	50.0	53.9		ug/L		108	78 - 123
tert-Butylbenzene	2.0	U	50.0	55.1		ug/L		110	78 - 124
Tetrachloroethene	1.0	U	50.0	53.2		ug/L		106	74 - 129
Toluene	1.0	U	50.0	53.3		ug/L		107	80 - 121
trans-1,2-Dichloroethene	1.0	U	50.0	56.0		ug/L		112	75 - 124
trans-1,3-Dichloropropene	1.0	U	50.0	49.5		ug/L		99	73 - 127
Trichloroethene	1.0	U	50.0	55.0		ug/L		110	79 - 123
Trichlorofluoromethane	2.0	U	50.0	63.9		ug/L		128	65 - 141
Vinyl chloride	2.6	J	50.0	52.1		ug/L		99	58 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*81 - 118*
4-Bromofluorobenzene (Surr)	*97*		*85 - 114*
Dibromofluoromethane (Surr)	*99*		*80 - 119*
Toluene-d8 (Surr)	*98*		*89 - 112*

Lab Sample ID: 280-102516-7 MSD
Matrix: Water
Analysis Batch: 333931

Client Sample ID: 6MW2606
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	51.7		ug/L		103	78 - 124	1	20
1,1,1-Trichloroethane	1.0	U	50.0	56.2		ug/L		112	74 - 131	4	20
1,1,2,2-Tetrachloroethane	2.0	U	50.0	50.1		ug/L		100	71 - 121	0	20
1,1,2-Trichloroethane	1.0	U	50.0	52.0		ug/L		104	80 - 119	1	20
1,1-Dichloroethane	1.0	U	50.0	54.7		ug/L		109	77 - 125	4	20
1,1-Dichloroethene	1.0	U	50.0	54.8		ug/L		110	71 - 131	3	20
1,1-Dichloropropene	1.0	U	50.0	55.7		ug/L		111	79 - 125	3	20
1,2,3-Trichlorobenzene	2.0	U	50.0	57.1		ug/L		114	69 - 129	3	20
1,2,3-Trichloropropane	1.0	U	50.0	53.1		ug/L		106	73 - 122	5	20
1,2,4-Trimethylbenzene	2.0	U	50.0	53.2		ug/L		106	76 - 124	3	20
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	44.9		ug/L		90	62 - 128	2	20
1,2-Dibromoethane	2.0	U	50.0	51.8		ug/L		104	80 - 120	1	20
1,2-Dichloroethane	1.0	U	50.0	57.4		ug/L		115	73 - 128	1	20
1,2-Dichloropropane	1.0	U	50.0	58.0		ug/L		116	78 - 122	1	20
1,3,5-Trimethylbenzene	2.0	U	50.0	54.0		ug/L		108	75 - 124	3	20
1,3-Dichloropropane	1.0	U	50.0	52.8		ug/L		106	80 - 119	1	20
2,2-Dichloropropane	2.0	U	50.0	62.1		ug/L		124	60 - 139	1	20
2-Butanone (MEK)	5.0	U	50.0	61.7		ug/L		123	56 - 143	7	20
2-Chlorotoluene	2.0	U	50.0	54.6		ug/L		109	79 - 122	3	20
2-Hexanone	2.0	U	50.0	49.2		ug/L		98	57 - 139	4	20
4-Chlorotoluene	2.0	U	50.0	53.4		ug/L		107	78 - 122	3	20
4-Methyl-2-pentanone (MIBK)	2.0	U	50.0	51.0		ug/L		102	67 - 130	5	20
Acetone	10	U	50.0	50.8		ug/L		102	39 - 160	9	20
Benzene	1.0	U	50.0	52.7		ug/L		105	79 - 120	4	20

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

Lab Sample ID: 280-102516-7 MSD
Matrix: Water
Analysis Batch: 333931

Client Sample ID: 6MW2606
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	2.0	U	50.0	52.7		ug/L		105	80 - 120	3	20
Bromochloromethane	2.0	U	50.0	53.1		ug/L		106	78 - 123	1	20
Bromodichloromethane	2.0	U	50.0	55.3		ug/L		111	79 - 125	3	20
Bromoform	1.0	U	50.0	52.9		ug/L		106	66 - 130	0	20
Bromomethane	2.0	U	50.0	54.9		ug/L		110	53 - 141	3	20
Carbon disulfide	1.0	U	50.0	57.2		ug/L		114	64 - 133	4	20
Carbon tetrachloride	1.0	U	50.0	54.0		ug/L		108	72 - 136	3	20
Chlorobenzene	1.0	U	50.0	51.2		ug/L		102	82 - 118	4	20
Chloroethane	1.0	U	50.0	64.4		ug/L		129	60 - 138	2	20
Chloroform	1.0	U	50.0	54.0		ug/L		108	79 - 124	1	20
Chloromethane	2.0	U	50.0	51.7		ug/L		103	50 - 139	2	20
cis-1,2-Dichloroethene	2.3	J	50.0	58.0		ug/L		111	78 - 123	3	20
cis-1,3-Dichloropropene	1.0	U	50.0	49.0		ug/L		98	75 - 124	1	20
Dibromochloromethane	1.0	U	50.0	53.2		ug/L		106	74 - 126	1	20
Dibromomethane	2.0	U	50.0	53.6		ug/L		107	79 - 123	3	20
Dichlorodifluoromethane	2.0	U	50.0	58.1		ug/L		116	32 - 152	0	20
Ethylbenzene	1.0	U	50.0	54.9		ug/L		110	79 - 121	3	20
Isopropylbenzene	2.0	U	50.0	55.1		ug/L		110	72 - 131	3	20
m,p-Xylenes	1.0	U	50.0	51.4		ug/L		103	80 - 121	2	20
Methyl tert-butyl ether	2.0	U	50.0	57.3		ug/L		115	71 - 124	6	20
Methylene Chloride	5.0	U	50.0	54.4		ug/L		109	74 - 124	0	20
Naphthalene	2.0	U	50.0	51.3		ug/L		103	61 - 128	9	20
n-Butylbenzene	2.0	U	50.0	54.4		ug/L		109	75 - 128	1	20
N-Propylbenzene	2.0	U	50.0	55.0		ug/L		110	76 - 126	3	20
o-Xylene	1.0	U	50.0	50.2		ug/L		100	78 - 122	2	20
p-Isopropyltoluene	2.0	U	50.0	55.3		ug/L		111	77 - 127	1	20
sec-Butylbenzene	2.0	U	50.0	52.4		ug/L		105	77 - 126	3	20
Styrene	1.0	U	50.0	53.4		ug/L		107	78 - 123	1	20
tert-Butylbenzene	2.0	U	50.0	53.8		ug/L		108	78 - 124	2	20
Tetrachloroethene	1.0	U	50.0	51.1		ug/L		102	74 - 129	4	20
Toluene	1.0	U	50.0	51.8		ug/L		104	80 - 121	3	20
trans-1,2-Dichloroethene	1.0	U	50.0	54.6		ug/L		109	75 - 124	3	20
trans-1,3-Dichloropropene	1.0	U	50.0	50.4		ug/L		101	73 - 127	2	20
Trichloroethene	1.0	U	50.0	52.2		ug/L		104	79 - 123	5	20
Trichlorofluoromethane	2.0	U	50.0	60.5		ug/L		121	65 - 141	5	20
Vinyl chloride	2.6	J	50.0	54.0		ug/L		103	58 - 137	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*81 - 118*
4-Bromofluorobenzene (Surr)	*99*		*85 - 114*
Dibromofluoromethane (Surr)	*100*		*80 - 119*
Toluene-d8 (Surr)	*99*		*89 - 112*

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

Lab Sample ID: MB 280-392810/5
Matrix: Water
Analysis Batch: 392810

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	0.218	J	1.0	0.16	mg/L			10/25/17 14:35	1

Lab Sample ID: LCS 280-392810/3
Matrix: Water
Analysis Batch: 392810

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: LCSD 280-392810/4
Matrix: Water
Analysis Batch: 392810

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	24.8		mg/L		99	88 - 112	1	15

Lab Sample ID: MB 280-393018/5
Matrix: Water
Analysis Batch: 393018

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			10/26/17 18:05	1

Lab Sample ID: LCS 280-393018/4
Matrix: Water
Analysis Batch: 393018

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	25.0		mg/L		100	88 - 112

Lab Sample ID: MB 280-393019/5
Matrix: Water
Analysis Batch: 393019

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			10/26/17 18:05	1

Lab Sample ID: LCS 280-393019/4
Matrix: Water
Analysis Batch: 393019

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	25.0		mg/L		100	88 - 112

GC/MS VOA

Analysis Batch: 333745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-102516-1	6MW2006	Total/NA	Water	8260C DOD	
280-102516-2	6MW2006D	Total/NA	Water	8260C DOD	
280-102516-3	6MW2206	Total/NA	Water	8260C DOD	
280-102516-8	TB07	Total/NA	Water	8260C DOD	
280-102516-9	FB03	Total/NA	Water	8260C DOD	
MB 160-333745/7	Method Blank	Total/NA	Water	8260C DOD	
LCS 160-333745/4	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 160-333745/5	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
280-102516-1 MS	6MW2006MS	Total/NA	Water	8260C DOD	
280-102516-1 MSD	6MW2006MSD	Total/NA	Water	8260C DOD	

Analysis Batch: 333931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-102516-4	6MW2306	Total/NA	Water	8260C DOD	
280-102516-5	6MW2406	Total/NA	Water	8260C DOD	
280-102516-6 - RA	6MW2506	Total/NA	Water	8260C DOD	
280-102516-7	6MW2606	Total/NA	Water	8260C DOD	
MB 160-333931/7	Method Blank	Total/NA	Water	8260C DOD	
LCS 160-333931/4	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 160-333931/5	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
280-102516-7 MS	6MW2606	Total/NA	Water	8260C DOD	
280-102516-7 MSD	6MW2606	Total/NA	Water	8260C DOD	

General Chemistry

Analysis Batch: 392810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-102516-1	6MW2006	Total/NA	Water	9060A	
280-102516-4	6MW2306	Total/NA	Water	9060A	
280-102516-5	6MW2406	Total/NA	Water	9060A	
280-102516-6	6MW2506	Total/NA	Water	9060A	
280-102516-7	6MW2606	Total/NA	Water	9060A	
MB 280-392810/5	Method Blank	Total/NA	Water	9060A	
LCS 280-392810/3	Lab Control Sample	Total/NA	Water	9060A	
LCSD 280-392810/4	Lab Control Sample Dup	Total/NA	Water	9060A	

Analysis Batch: 393018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-102516-3	6MW2206	Total/NA	Water	9060A	
MB 280-393018/5	Method Blank	Total/NA	Water	9060A	
LCS 280-393018/4	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 393019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-393019/5	Method Blank	Total/NA	Water	9060A	
LCS 280-393019/4	Lab Control Sample	Total/NA	Water	9060A	

Client Sample ID: 6MW2006 — Lab Sample ID: 280-102516-1

Date Collected: 10/17/17 10:00 — **Matrix: Water**
Date Received: 10/18/17 08:30

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	333745	10/24/17 22:55	JDH	TAL SL
Total/NA	Analysis	9060A		1			392810	10/25/17 16:52	CCJ	TAL DEN

Client Sample ID: 6MW2006D — Lab Sample ID: 280-102516-2

Date Collected: 10/17/17 10:00 — **Matrix: Water**
Date Received: 10/18/17 08:30

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	333745	10/25/17 00:33	JDH	TAL SL

Client Sample ID: 6MW2206 — Lab Sample ID: 280-102516-3

Date Collected: 10/17/17 11:10 — **Matrix: Water**
Date Received: 10/18/17 08:30

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	333745	10/25/17 00:58	JDH	TAL SL
Total/NA	Analysis	9060A		2			393018	10/26/17 23:23	CCJ	TAL DEN

Client Sample ID: 6MW2306 — Lab Sample ID: 280-102516-4

Date Collected: 10/17/17 11:55 — **Matrix: Water**
Date Received: 10/18/17 08:30

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	333931	10/25/17 17:52	JDH	TAL SL
Total/NA	Analysis	9060A		1			392810	10/25/17 17:55	CCJ	TAL DEN

Client Sample ID: 6MW2406 — Lab Sample ID: 280-102516-5

Date Collected: 10/17/17 12:40 — **Matrix: Water**
Date Received: 10/18/17 08:30

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	333931	10/25/17 18:26	JDH	TAL SL
Total/NA	Analysis	9060A		1			392810	10/25/17 18:13	CCJ	TAL DEN

Client Sample ID: 6MW2506 — Lab Sample ID: 280-102516-6

Date Collected: 10/17/17 13:40 — **Matrix: Water**
Date Received: 10/18/17 08:30

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	333931	10/25/17 20:22	JDH	TAL SL
Total/NA	Analysis	9060A		1			392810	10/25/17 18:28	CCJ	TAL DEN

Lab Chronicle

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

TestAmerica Job ID: 280-102516-1

Client Sample ID: 6MW2606

Date Collected: 10/17/17 14:25
Date Received: 10/18/17 08:30

Lab Sample ID: 280-102516-7

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	333931	10/25/17 19:30	JDH	TAL SL
Total/NA	Analysis	9060A		1			392810	10/25/17 18:43	CCJ	TAL DEN

Client Sample ID: TB07

Date Collected: 10/17/17 14:45
Date Received: 10/18/17 08:30

Lab Sample ID: 280-102516-8

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	333745	10/24/17 22:06	JDH	TAL SL

Client Sample ID: FB03

Date Collected: 10/17/17 14:50
Date Received: 10/18/17 08:30

Lab Sample ID: 280-102516-9

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	333745	10/24/17 22:30	JDH	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

Accreditation/Certification Summary

Client: Leidos, Inc. TestAmerica Job ID: 280-102516-1
Project/Site: Stratton ANGB, NY (Schenectady)

Laboratory: TestAmerica Denver

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

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-19 *

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

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

Florida	NELAP	4	E87667	06-30-18

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

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

New Hampshire	NELAP	1	205310	04-28-18
New York	NELAP	2	11964	04-01-18

The following analytes are included in this report, but accreditation/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	07-31-18

The following analytes are included in this report, but accreditation/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 accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-18
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-19
Florida	NELAP	4	E87689	06-30-18
Illinois	NELAP	5	200023	11-30-17 *
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	12-31-17 *
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-18
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-18
Missouri	State Program	7	780	06-30-18
Nevada	State Program	9	MO000542017-1	07-31-18
New Jersey	NELAP	2	MO002	06-30-18
New York	NELAP	2	11616	03-31-18
North Dakota	State Program	8	R207	06-30-18
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-18
Pennsylvania	NELAP	3	68-00540	02-21-18
South Carolina	State Program	4	85002001	06-30-18
Texas	NELAP	6	T104704193-17-11	07-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Leidos, Inc. TestAmerica Job ID: 280-102516-1
Project/Site: Stratton ANGB, NY (Schenectady)

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Identification Number	Expiration Date
US Fish & Wildlife	Federal		058448	08-31-18
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-18
Virginia	NELAP	3	460230	06-14-18
Washington	State Program	10	C592	08-30-18
West Virginia DEP	State Program	3	381	08-31-18

Method Summary

Client: Leidos, Inc. TestAmerica Job ID: 280-102516-1
Project/Site: Stratton ANGB, NY (Schenectady)

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. TestAmerica Job ID: 280-102516-1
Project/Site: Stratton ANGB, NY (Schenectady)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-102516-1	6MW2006	Water	10/17/17 10:00	10/18/17 08:30
280-102516-2	6MW2006D	Water	10/17/17 10:00	10/18/17 08:30
280-102516-3	6MW2206	Water	10/17/17 11:10	10/18/17 08:30
280-102516-4	6MW2306	Water	10/17/17 11:55	10/18/17 08:30
280-102516-5	6MW2406	Water	10/17/17 12:40	10/18/17 08:30
280-102516-6	6MW2506	Water	10/17/17 13:40	10/18/17 08:30
280-102516-7	6MW2606	Water	10/17/17 14:25	10/18/17 08:30
280-102516-8	TB07	Water	10/17/17 14:45	10/18/17 08:30
280-102516-9	FB03	Water	10/17/17 14:50	10/18/17 08:30

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Instrument ID: VMSX Analysis Batch Number: 327349

Lab Sample ID: IC 160-327349/5 Client Sample ID:

Date Analyzed: 09/14/17 23:45 Lab File ID: XICL8776.D GC Column: RTXVMS30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	15.27	Missed Peak	hannj	09/18/17 16:48

Lab Sample ID: IC 160-327349/6 Client Sample ID:

Date Analyzed: 09/15/17 00:10 Lab File ID: XICL8777.D GC Column: RTXVMS30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	9.51	Missed Peak	hannj	09/18/17 16:53

Lab Sample ID: IC 160-327349/7 Client Sample ID:

Date Analyzed: 09/15/17 00:35 Lab File ID: XICL8778.D GC Column: RTXVMS30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	9.50	Missed Peak	hannj	09/18/17 16:54

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
TOC ICV Std_00033	06/30/18		Ricca, Lot 4706c18		(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm
TOC LCS Std_00038	07/31/19		Ultra Scientific, Lot CR-2855		(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260 NewWkMix_00236	09/17/17	09/10/17	Methanol, Lot DP837	10 mL	8260_2_CLEVE_00056	100 uL	2-Chloroethyl vinyl ether	25 ug/mL
					8260Custom1_00056	125 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	25 ug/mL
							n-Nonyl Aldehyde	25 ug/mL
					8260Cyclohexa_00056	100 uL	Cyclohexanone	250 ug/mL
					8260Gases_00225	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_00056	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_00056	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

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

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_00059	50 uL	Vinyl acetate	25 ug/mL
					Acrolein_00051	62.5 uL	Acrolein	125 ug/mL
					Adds(A) 2016_00019	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.: 280-102516-1

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_00019	100 uL	Ethyl acetate	50 ug/mL
							Ethyl acrylate	25 ug/mL
							Methyl methacrylate	50 ug/mL
							n-Butyl acetate	25 ug/mL
					Ethanol P_00007	100 uL	Ethanol	1000 ug/mL
					Polar Add._00048	100 uL	Acetonitrile	250 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_00056	09/19/17		Restek, Lot A0123891		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.8260Custom1_00056	09/19/17		Accustandard, Lot 215101095-02		(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00056	09/19/17		Restek, Lot A0118487		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.8260Gases_00225	09/17/17		Restek, Lot A0124278		(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_00056	09/19/17		Restek, Lot A0123890		(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_00056	09/19/17		Restek, Lot A0123711		(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.: 280-102516-1

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.: 280-102516-1

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_00059	10/10/17		Restek, Lot A0127538		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00051	09/19/17		Restek, Lot A0126387		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A) 2016_00019	10/03/17		Restek, Lot A0123685		(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_00019	10/03/17		Restek, Lot A0123728		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Ethanol P_00007	09/27/17		Restek, Lot A0123787		(Purchased Reagent)		Ethanol	100000 ug/mL
.Polar Add._00048	09/19/17		Restek, Lot A0123796		(Purchased Reagent)		Acetonitrile	25000 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_00243	10/29/17	10/22/17	Methanol, Lot DS435	10 mL	8260Gases_00231	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_00058	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_00058	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.: 280-102516-1

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_00231	10/29/17		Restek, Lot A0124278		(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.: 280-102516-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	2500 ug/mL
.8260Ketones_00058	11/15/17		Restek, Lot A0123890		(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_00058	11/15/17		Restek, Lot A0123711		(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.: 280-102516-1

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_00079	10/10/17	09/10/17	Methanol, Lot DP837	25 mL	8260_Surr_00051	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_00051	10/10/17		Restek, Lot A0124069		(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_00080	11/10/17	10/10/17	Methanol, Lot DS435	25 mL	8260_Surr_00052	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_00052	11/10/17		Restek, Lot A0124069		(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_00051	10/10/17		Restek, Lot A0124069		(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_00213	09/17/17	09/10/17	Methanol, Lot DP837	1 mL	8260_2_CLEVE_00056	50 uL	2-Chloroethyl vinyl ether	125 ug/mL
					8260Custom1_00056	62.5 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	125 ug/mL
							n-Nonyl Aldehyde	125 ug/mL
					8260Cyclohexa_00056	50 uL	Cyclohexanone	1250 ug/mL
					8260Gases_00225	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_00056	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_00056	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.: 280-102516-1

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.: 280-102516-1

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_00059	25 uL	Vinyl acetate	125 ug/mL
					Acrolein_00051	31.25 uL	Acrolein	625 ug/mL
					Adds(A) 2016_00019	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_00019	50 uL	Ethyl acetate	250 ug/mL
							Ethyl acrylate	125 ug/mL
							Methyl methacrylate	250 ug/mL
							n-Butyl acetate	125 ug/mL
					Ethanol P_00007	50 uL	Ethanol	5000 ug/mL
					Polar Add._00048	50 uL	Acetonitrile	1250 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_00056	09/19/17	Restek, Lot A0123891			(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.8260Custom1_00056	09/19/17	Accustandard, Lot 215101095-02			(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00056	09/19/17	Restek, Lot A0118487			(Purchased Reagent)		Cyclohexanone	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.8260Gases_00225	09/17/17		Restek, Lot A0124278		(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_00056	09/19/17		Restek, Lot A0123890		(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_00056	09/19/17		Restek, Lot A0123711		(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
							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.: 280-102516-1

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_00059	10/10/17		Restek, Lot A0127538		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00051	09/19/17		Restek, Lot A0126387		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A) 2016_00019	10/03/17		Restek, Lot A0123685		(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.: 280-102516-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.Adds(B) 2016_00019	10/03/17		Restek, Lot A0123728		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Ethanol P_00007	09/27/17		Restek, Lot A0123787		(Purchased Reagent)		Ethanol	100000 ug/mL
.Polar Add._00048	09/19/17		Restek, Lot A0123796		(Purchased Reagent)		Acetonitrile	25000 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_00227	09/17/17	09/10/17	Methanol, Lot DP837	5 mL	8260GasesSS_00226	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_00055	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_00055	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.: 280-102516-1

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_00226	09/17/17		Restek, Lot A0124116		(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_00055	09/19/17		Restek, Lot A0123880		(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_00055	09/19/17		Restek, Lot A0123775		(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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

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
BFB_00074	10/02/17		AccuStandard, Lot 216071230		(Purchased Reagent)		BFB	25 ug/mL
							Tentatively Identified Compound	
							Trihalomethanes, Total	
BFB_00075	11/03/17		AccuStandard, Lot 216071230		(Purchased Reagent)		BFB	25 ug/mL
							Tentatively Identified Compound	
							Trihalomethanes, Total	
I.S. Working_00153	10/08/17	09/08/17	Methanol, Lot DP837	25 mL	8260 IS(2014)_00044	250 uL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene	25 ug/mL
.8260 IS(2014)_00044	10/08/17		Restek, Lot A0123516		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
I.S. Working_00154	11/04/17	10/04/17	Methanol, Lot DS435	25 mL	8260 IS(2014)_00045	250 uL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene	25 ug/mL
.8260 IS(2014)_00045	11/04/17	Restek, Lot A0123516			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL

Reagent

TOC ICV Std_00033

RICCA CHEMICAL COMPANY®

Arlington, TX 76012
Pocomoke City, MD 21851
Batesville, IN 47006
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Organic Carbon Standard, 1000 ppm C

Lot Number: 4706C18 **Product Number:** 1847

Manufacture Date: JUN 12, 2017
Expiration Date: JUN 2018

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)
1847-32	1 L amber glass	12 months
1847-16	500 mL amber glass	12 months

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

Jim Gibbs (06/12/2017)
Quality Control Supervisor
This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

Reagent

TOC LCS Std_00038

Certificate of Analysis

ISO Guide 34 Reference Material

Product Number: IQC-106
Lot Number: CR-2855

Lot Issue Date: 26-Jun 2017
Expiration Date: 31-Jul 2019

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 (%)	Analyte Concentration	Traceability & Method
TOC	potassium hydrogen phthalate	RM10715	99.96	1001 ± 5 µg/mL	NY02713; 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/NCSL 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

250 SMITH STREET • NORTH KINGSTOWN, RHODE ISLAND 02852 • WWW.ULTRASCI.COM

Certificate of Analysis

ISO Guide 34 Reference Material

Product Number: IQC-106
Lot Number: CR-2855

Lot Issue Date: 26-Jun 2017
Expiration Date: 31-Jul 2019

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.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

Reagent

8260Custom1_00056

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: S-26138
Description: Custom VOC Standard
Lot: 215101095-02
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

REC'D 7-18-17
JDH

Date Certified: Jun 20, 2017
Expiration: Jul 20, 2018
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



Signal Word: Danger

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

1256224
1256225
1256226
1256227

A product with a 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%. This value is the expanded uncertainty and represents 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

For use in routine laboratory analysis.

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

   AR-1463

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

   AT-1339

   ISO 9001:2015 - 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. This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

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 ±5%, the U_{CRM} for inorganic products is ±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

8260Ketones_00058

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0123890

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

REC'D 9-11-17
JDH
127695A-956

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

Expiration Date : January 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Acetone		12,517.5	µg/mL	+/-	72.7778	µg/mL	Gravimetric
	CAS # 67-64-1	(Lot SHBH0922V)			+/-	755.2362	µg/mL	Unstressed
	Purity 99%				+/-	757.0293	µg/mL	Stressed
2	2-Butanone (MEK)		12,521.8	µg/mL	+/-	72.8025	µg/mL	Gravimetric
	CAS # 78-93-3	(Lot SHBF2461V)			+/-	755.4927	µg/mL	Unstressed
	Purity 99%				+/-	757.2863	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)		12,519.8	µg/mL	+/-	72.7909	µg/mL	Gravimetric
	CAS # 108-10-1	(Lot SHBG3630V)			+/-	755.3720	µg/mL	Unstressed
	Purity 99%				+/-	757.1654	µg/mL	Stressed
4	2-Hexanone		12,508.5	µg/mL	+/-	72.7255	µg/mL	Gravimetric
	CAS # 591-78-6	(Lot MKBW0198V)			+/-	754.6932	µg/mL	Unstressed
	Purity 99%				+/-	756.4850	µg/mL	Stressed

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

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

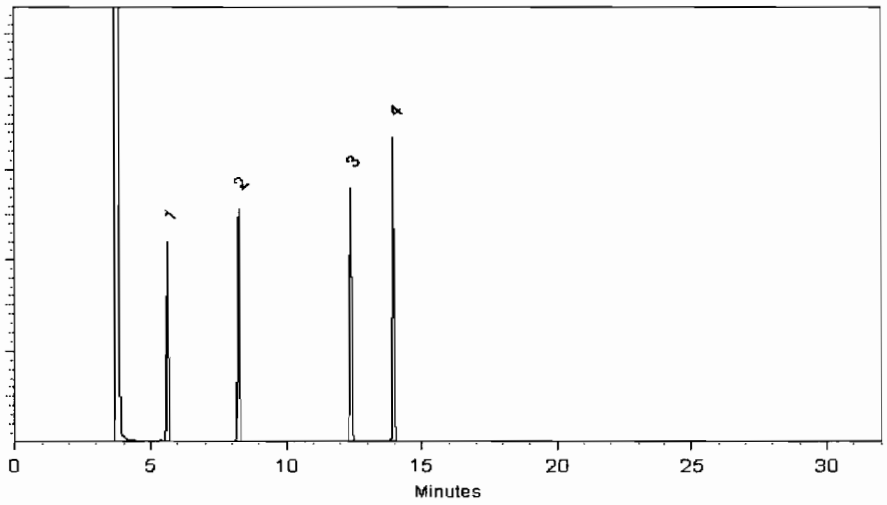
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

F. Joseph Tallon - Mix Technician **Date Mixed:** 03-Jan-2017 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 05-Jan-2017

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

Reagent

8260MegaMix_00058

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 571992 **Lot No.:** A0123711

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

REC'D 9-11-17
JDH
1276948-950

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

Expiration Date : December 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether)	2,501.3 µg/mL	+/- 14.5425	µg/mL	Gravimetric
	CAS # 60-29-7 (Lot SHBG1462V)		+/- 150.9115	µg/mL	Unstressed
	Purity 99%		+/- 151.2698	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,505.1 µg/mL	+/- 14.5650	µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00009482)		+/- 151.1453	µg/mL	Unstressed
	Purity 99%		+/- 151.5041	µg/mL	Stressed
3	1,1-dichloroethene	2,511.5 µg/mL	+/- 14.6021	µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBG8609V)		+/- 151.5299	µg/mL	Unstressed
	Purity 99%		+/- 151.8897	µg/mL	Stressed
4	tert-Butanol (TBA)	25,001.8 µg/mL	+/- 145.3547	µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBF0688V)		+/- 1,508.4656	µg/mL	Unstressed
	Purity 99%		+/- 1,512.0470	µg/mL	Stressed
5	Methyl acetate	5,000.5 µg/mL	+/- 29.0733	µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBG4345V)		+/- 301.7023	µg/mL	Unstressed
	Purity 99%		+/- 302.4186	µg/mL	Stressed
6	Iodomethane (methyl iodide)	2,502.9 µg/mL	+/- 14.5519	µg/mL	Gravimetric
	CAS # 74-88-4 (Lot SHBF2149V)		+/- 151.0095	µg/mL	Unstressed
	Purity 99%		+/- 151.3681	µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	2,517.1 µg/mL	+/- 14.6348	µg/mL	Gravimetric
	CAS # 107-05-1 (Lot SHBF8133V)		+/- 151.8693	µg/mL	Unstressed
	Purity 99%		+/- 152.2299	µg/mL	Stressed

8	Methylene chloride (dichloromethane)		2,502.1	µg/mL	+/-	14.5476	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBH2578V)			+/-	150.9643	µg/mL	Unstressed
	Purity 99%				+/-	151.3227	µg/mL	Stressed
9	Carbon disulfide		2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot S20A856)			+/-	150.9190	µg/mL	Unstressed
	Purity 99%				+/-	151.2773	µg/mL	Stressed
10	Acrylonitrile		25,001.3	µg/mL	+/-	145.3518	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot T07B2030)			+/-	1,508.4355	µg/mL	Unstressed
	Purity 99%				+/-	1,512.0167	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)		2,505.3	µg/mL	+/-	14.5657	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBG2655V)			+/-	151.1528	µg/mL	Unstressed
	Purity 99%				+/-	151.5117	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,500.5	µg/mL	+/-	14.5379	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBV2831V)			+/-	150.8644	µg/mL	Unstressed
	Purity 98%				+/-	151.2226	µg/mL	Stressed
13	n-Hexane (C6)		2,503.8	µg/mL	+/-	14.5570	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBG2674V)			+/-	151.0623	µg/mL	Unstressed
	Purity 99%				+/-	151.4210	µg/mL	Stressed
14	1,1-Dichloroethane		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 75-34-3	(Lot 00008621)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
15	2,2-Dichloropropane		2,501.0	µg/mL	+/-	14.5408	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBR0622V)			+/-	150.8940	µg/mL	Unstressed
	Purity 98%				+/-	151.2522	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,503.8	µg/mL	+/-	14.5570	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot 09431AEV)			+/-	151.0623	µg/mL	Unstressed
	Purity 99%				+/-	151.4210	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,512.5	µg/mL	+/-	363.4341	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBG8201V)			+/-	3,771.6543	µg/mL	Unstressed
	Purity 99%				+/-	3,780.6088	µg/mL	Stressed
18	chloroform		2,501.9	µg/mL	+/-	14.5461	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot MKBV2089V)			+/-	150.9492	µg/mL	Unstressed
	Purity 99%				+/-	151.3076	µg/mL	Stressed
19	Bromochloromethane		2,503.3	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00004559)			+/-	151.0322	µg/mL	Unstressed
	Purity 99%				+/-	151.3907	µg/mL	Stressed
20	Tetrahydrofuran		5,001.3	µg/mL	+/-	29.0777	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBG2910V)			+/-	301.7476	µg/mL	Unstressed
	Purity 99%				+/-	302.4640	µg/mL	Stressed
21	1,1,1-trichloroethane		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B15W12061)			+/-	150.8512	µg/mL	Unstressed
	Purity 99%				+/-	151.2093	µg/mL	Stressed
22	Cyclohexane		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKBX4768V)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
23	1,1-Dichloropropene		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 160727JLM)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed

24	carbon tetrachloride		2,503.3	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBG1763V)			+/-	151.0322	µg/mL	Unstressed
	Purity 99%				+/-	151.3907	µg/mL	Stressed
25	n-Heptane (C7)		2,505.5	µg/mL	+/-	14.5672	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBG6171V)			+/-	151.1679	µg/mL	Unstressed
	Purity 99%				+/-	151.5268	µg/mL	Stressed
26	1,2-Dichloroethane		2,504.8	µg/mL	+/-	14.5628	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot SHBF9313V)			+/-	151.1227	µg/mL	Unstressed
	Purity 99%				+/-	151.4815	µg/mL	Stressed
27	Benzene		2,506.9	µg/mL	+/-	14.5752	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBH2056V)			+/-	151.2509	µg/mL	Unstressed
	Purity 99%				+/-	151.6100	µg/mL	Stressed
28	Trichloroethene		2,502.4	µg/mL	+/-	14.5490	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBH1955V)			+/-	150.9794	µg/mL	Unstressed
	Purity 99%				+/-	151.3378	µg/mL	Stressed
29	Methylcyclohexane		2,500.3	µg/mL	+/-	14.5372	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBG0634V)			+/-	150.8570	µg/mL	Unstressed
	Purity 98%				+/-	151.2152	µg/mL	Stressed
30	1,2-Dichloropropane		2,503.0	µg/mL	+/-	14.5527	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot 01113D0V)			+/-	151.0171	µg/mL	Unstressed
	Purity 99%				+/-	151.3756	µg/mL	Stressed
31	1,4-Dioxane		50,011.4	µg/mL	+/-	290.7552	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBH2584V)			+/-	3,017.4064	µg/mL	Unstressed
	Purity 99%				+/-	3,024.5702	µg/mL	Stressed
32	Dibromomethane		2,501.9	µg/mL	+/-	14.5465	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10183283)			+/-	150.9531	µg/mL	Unstressed
	Purity 98%				+/-	151.3115	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot 22622)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
34	Toluene		2,504.3	µg/mL	+/-	14.5599	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBH1932V)			+/-	151.0925	µg/mL	Unstressed
	Purity 99%				+/-	151.4512	µg/mL	Stressed
35	Ethyl methacrylate		2,506.9	µg/mL	+/-	14.5752	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot SHBD9190V)			+/-	151.2509	µg/mL	Unstressed
	Purity 99%				+/-	151.6100	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,503.6	µg/mL	+/-	14.5563	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot C584177)			+/-	151.0548	µg/mL	Unstressed
	Purity 99%				+/-	151.4134	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
38	1,3-Dichloropropane		2,503.5	µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBG2162V)			+/-	151.0472	µg/mL	Unstressed
	Purity 99%				+/-	151.4059	µg/mL	Stressed
39	Tetrachloroethene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBD9374V)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed

40	dibromochloromethane		2,500.2	µg/mL	+/-	14.5365	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKBW3597V)			+/-	150.8497	µg/mL	Unstressed
	Purity 98%				+/-	151.2078	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBH3877V)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed
42	Chlorobenzene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBF0505V)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
43	m-Xylene		1,250.3	µg/mL	+/-	7.2691	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBG4347V)			+/-	75.4331	µg/mL	Unstressed
	Purity 99%				+/-	75.6122	µg/mL	Stressed
44	p-Xylene		1,251.3	µg/mL	+/-	7.2749	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBG3928V)			+/-	75.4935	µg/mL	Unstressed
	Purity 99%				+/-	75.6727	µg/mL	Stressed
45	Ethylbenzene		2,503.3	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBG5920V)			+/-	151.0322	µg/mL	Unstressed
	Purity 99%				+/-	151.3907	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)			+/-	150.8512	µg/mL	Unstressed
	Purity 99%				+/-	151.2093	µg/mL	Stressed
47	o-Xylene		2,504.9	µg/mL	+/-	14.5636	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBH3432V)			+/-	151.1302	µg/mL	Unstressed
	Purity 99%				+/-	151.4890	µg/mL	Stressed
48	Styrene		2,506.3	µg/mL	+/-	14.5716	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKBS7097V)			+/-	151.2132	µg/mL	Unstressed
	Purity 99%				+/-	151.5722	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot 10185056)			+/-	150.9341	µg/mL	Unstressed
	Purity 99%				+/-	151.2925	µg/mL	Stressed
50	bromoform		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBD8459V)			+/-	151.0095	µg/mL	Unstressed
	Purity 99%				+/-	151.3681	µg/mL	Stressed
51	bromodichloromethane		2,506.8	µg/mL	+/-	14.5750	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKBW5506V)			+/-	151.2490	µg/mL	Unstressed
	Purity 97%				+/-	151.6081	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,508.5	µg/mL	+/-	14.5846	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	151.3489	µg/mL	Unstressed
	Purity 99%				+/-	151.7082	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot MKBP6041V)			+/-	150.8817	µg/mL	Unstressed
	Purity 95%				+/-	151.2399	µg/mL	Stressed
55	n-Propylbenzene		2,501.9	µg/mL	+/-	14.5461	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKBJ0332V)			+/-	150.9492	µg/mL	Unstressed
	Purity 99%				+/-	151.3076	µg/mL	Stressed

56	Bromobenzene		2,507.0	µg/mL	+/-	14.5759	µg/mL	Gravimetric
	CAS #	108-86-1 (Lot MKBD4032V)			+/-	151.2584	µg/mL	Unstressed
	Purity	99%			+/-	151.6175	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS #	108-67-8 (Lot BCBQ2165V)			+/-	150.9040	µg/mL	Unstressed
	Purity	99%			+/-	151.2622	µg/mL	Stressed
58	2-Chlorotoluene		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	CAS #	95-49-8 (Lot MKBW5554V)			+/-	150.8738	µg/mL	Unstressed
	Purity	99%			+/-	151.2320	µg/mL	Stressed
59	4-Chlorotoluene		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS #	106-43-4 (Lot MKBL7753V)			+/-	150.9115	µg/mL	Unstressed
	Purity	99%			+/-	151.2698	µg/mL	Stressed
60	tert-Butylbenzene		2,507.0	µg/mL	+/-	14.5759	µg/mL	Gravimetric
	CAS #	98-06-6 (Lot S52237V)			+/-	151.2584	µg/mL	Unstressed
	Purity	99%			+/-	151.6175	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,500.8	µg/mL	+/-	14.5401	µg/mL	Gravimetric
	CAS #	95-63-6 (Lot MKBJ6229V)			+/-	150.8866	µg/mL	Unstressed
	Purity	98%			+/-	151.2448	µg/mL	Stressed
62	sec-Butylbenzene		2,505.4	µg/mL	+/-	14.5665	µg/mL	Gravimetric
	CAS #	135-98-8 (Lot MKBR9260V)			+/-	151.1604	µg/mL	Unstressed
	Purity	99%			+/-	151.5193	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene)		2,503.8	µg/mL	+/-	14.5570	µg/mL	Gravimetric
	CAS #	99-87-6 (Lot MKBS2604V)			+/-	151.0623	µg/mL	Unstressed
	Purity	99%			+/-	151.4210	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,503.9	µg/mL	+/-	14.5577	µg/mL	Gravimetric
	CAS #	541-73-1 (Lot BCBM5751V)			+/-	151.0699	µg/mL	Unstressed
	Purity	99%			+/-	151.4285	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,509.9	µg/mL	+/-	14.5926	µg/mL	Gravimetric
	CAS #	106-46-7 (Lot MKBS1350V)			+/-	151.4319	µg/mL	Unstressed
	Purity	99%			+/-	151.7914	µg/mL	Stressed
66	n-Butylbenzene		2,503.3	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS #	104-51-8 (Lot 09418JJV)			+/-	151.0322	µg/mL	Unstressed
	Purity	99%			+/-	151.3907	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,503.8	µg/mL	+/-	14.5570	µg/mL	Gravimetric
	CAS #	95-50-1 (Lot SHBD7331V)			+/-	151.0623	µg/mL	Unstressed
	Purity	99%			+/-	151.4210	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS #	96-12-8 (Lot FBL01)			+/-	151.1378	µg/mL	Unstressed
	Purity	99%			+/-	151.4966	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,505.3	µg/mL	+/-	14.5657	µg/mL	Gravimetric
	CAS #	120-82-1 (Lot SHBC5541V)			+/-	151.1528	µg/mL	Unstressed
	Purity	99%			+/-	151.5117	µg/mL	Stressed
70	Hexachlorobutadiene		2,506.5	µg/mL	+/-	14.5728	µg/mL	Gravimetric
	CAS #	87-68-3 (Lot J31X013)			+/-	151.2266	µg/mL	Unstressed
	Purity	98%			+/-	151.5856	µg/mL	Stressed
71	Naphthalene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS #	91-20-3 (Lot MKBW2603V)			+/-	150.8889	µg/mL	Unstressed
	Purity	99%			+/-	151.2471	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,511.1	µg/mL	+/-	14.5999	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot 12912PFV)			+/-	151.5073	µg/mL	Unstressed
	Purity 99%				+/-	151.8670	µg/mL	Stressed

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

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

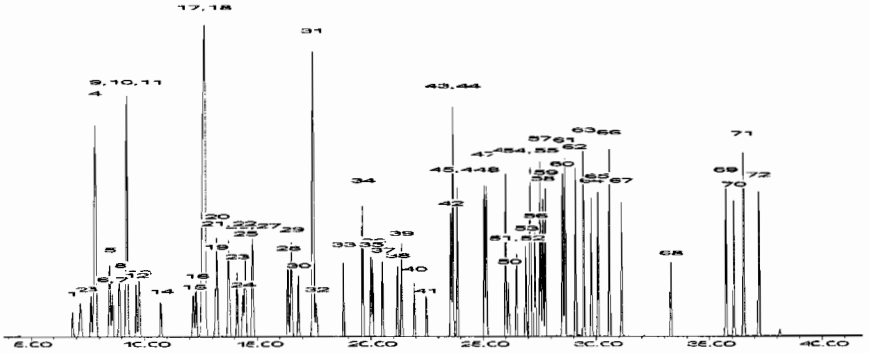
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

F. Joseph Tallon - Mix Technician **Date Mixed:** 22-Dec-2016 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 04-Jan-2017

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

Reagent

8260VinAcetat_00059

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Testing Laboratory
Certificate #3222.02

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.:** A0127538

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

Rec'd 7-24-17
JDH
1250363-365

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

Expiration Date : November 30, 2017 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Vinyl acetate	5,003.0 µg/mL	+/- 29.3604	µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBD7333V)		+/- 301.8795	µg/mL	Unstressed
	Purity 99%		+/- 302.5961	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)

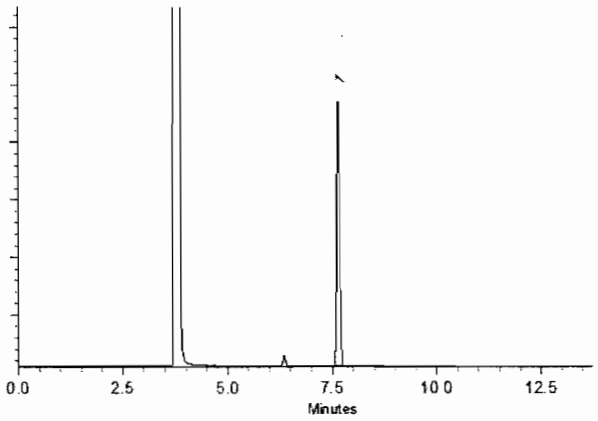
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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 - Mix Technician

Date Mixed: 15-May-2017 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 23-May-2017

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

Reagent

Adds(A) 2016_00019

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Testing Laboratory
Certificate #3222.02

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.:** A0123685

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2500-62500 µg/ml, P&T Methanol, 1 ml/ampul

REC'D 7-24-17 JDH

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

Expiration Date : June 30, 2018 **Storage:** 0°C or colder

124512B - 130

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Propanol (isopropanol)	25,022.0 µg/mL	+/- 145.4725 µg/mL		Gravimetric
	CAS # 67-63-0 (Lot SHBG8138V)		+/- 1,237.7836 µg/mL		Unstressed
	Purity 99%		+/- 1,268.5622 µg/mL		Stressed
2	Chloroprene (2-chloro-1,3-butadiene)	2,515.5 µg/mL	+/- 14.6253 µg/mL		Gravimetric
	CAS # 126-99-8 (Lot 161201JLM)		+/- 124.4364 µg/mL		Unstressed
	Purity 99%		+/- 127.5306 µg/mL		Stressed
3	Methacrylonitrile	25,000.0 µg/mL	+/- 145.3446 µg/mL		Gravimetric
	CAS # 126-98-7 (Lot 1012014)		+/- 1,236.6953 µg/mL		Unstressed
	Purity 99%		+/- 1,267.4469 µg/mL		Stressed
4	2,2,4-Trimethylpentane (isooctane)	2,508.0 µg/mL	+/- 14.5817 µg/mL		Gravimetric
	CAS # 540-84-1 (Lot SHBD2922V)		+/- 124.0654 µg/mL		Unstressed
	Purity 99%		+/- 127.1504 µg/mL		Stressed
5	1-Butanol	62,715.5 µg/mL	+/- 364.6143 µg/mL		Gravimetric
	CAS # 71-36-3 (Lot SHBF9309V)		+/- 3,102.3986 µg/mL		Unstressed
	Purity 99%		+/- 3,179.5425 µg/mL		Stressed
6	2-Nitropropane	5,007.8 µg/mL	+/- 29.1158 µg/mL		Gravimetric
	CAS # 79-46-9 (Lot BCBL0537V)		+/- 247.7251 µg/mL		Unstressed
	Purity 98%		+/- 253.8850 µg/mL		Stressed
7	1-Chlorohexane	2,501.5 µg/mL	+/- 14.5436 µg/mL		Gravimetric
	CAS # 544-10-5 (Lot 05107LK)		+/- 123.7413 µg/mL		Unstressed
	Purity 98%		+/- 126.8183 µg/mL		Stressed

8	1,2,3-Trimethylbenzene		2,516.2	µg/mL	+/- 14.6291	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 877605-15)			+/- 124.4685	µg/mL	Unstressed
	Purity 98%				+/- 127.5635	µg/mL	Stressed
9	Benzyl chloride		2,508.3	µg/mL	+/- 14.5832	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBB7346V)			+/- 124.0777	µg/mL	Unstressed
	Purity 99%				+/- 127.1630	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,508.0	µg/mL	+/- 14.5817	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/- 124.0654	µg/mL	Unstressed
	Purity 99%				+/- 127.1504	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)

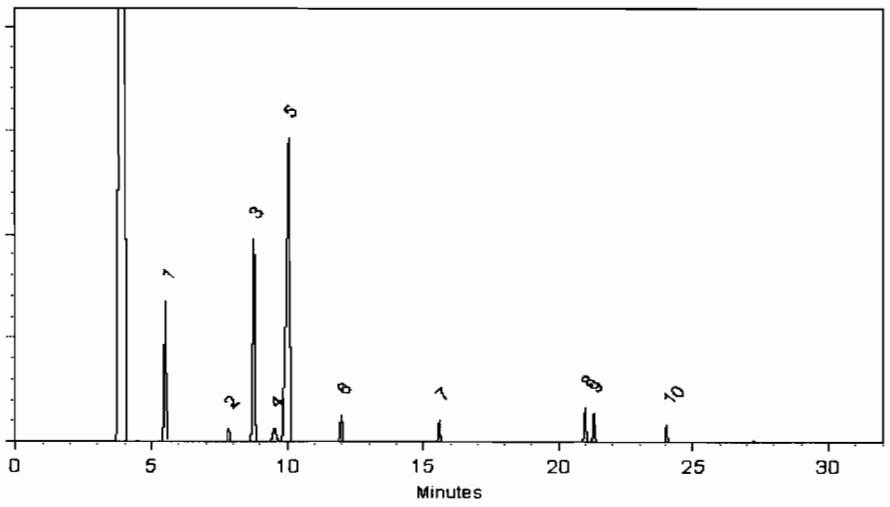
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Rebecca Sawyer

Date Mixed: 21-Dec-2016 **Balance:** 1125113331

Amanda Miller - Operations Tech-ARM QC

Date Passed: 27-Dec-2016

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

Reagent

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Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0123728

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, 2018 **Storage:** 0°C or colder

Recd 7-24-17
JDH
1245134-136

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Ethyl acetate		5,003.0	µg/mL	+/-	29.2937	µg/mL	Gravimetric
	CAS # 141-78-6	(Lot SHBG6401V)			+/-	301.8731	µg/mL	Unstressed
	Purity 99%				+/-	302.5897	µg/mL	Stressed
2	Ethyl acrylate		2,508.0	µg/mL	+/-	14.7183	µg/mL	Gravimetric
	CAS # 140-88-5	(Lot 10129902)			+/-	151.3320	µg/mL	Unstressed
	Purity 99%				+/-	151.6912	µg/mL	Stressed
3	Methyl methacrylate		5,011.5	µg/mL	+/-	29.3434	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot 160830A-BL1)			+/-	302.3859	µg/mL	Unstressed
	Purity 99%				+/-	303.1038	µg/mL	Stressed
4	Butyl acetate		2,505.5	µg/mL	+/-	14.7037	µg/mL	Gravimetric
	CAS # 123-86-4	(Lot SHBF4442V)			+/-	151.1811	µg/mL	Unstressed
	Purity 99%				+/-	151.5400	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)

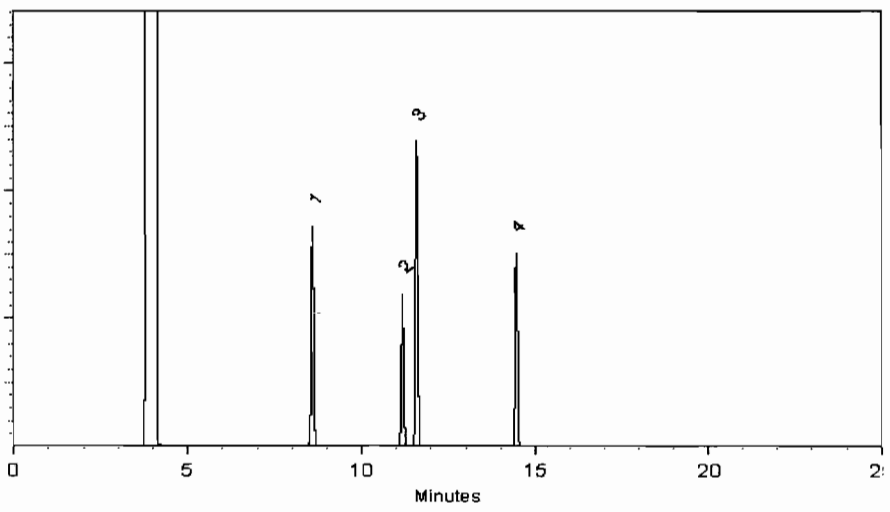
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

F. Joseph Tallon - Mix Technician **Date Mixed:** 23-Dec-2016 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 28-Dec-2016

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

Reagent

BFB_00074

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USA

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Fax (203)786-5287
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CERTIFICATE OF ANALYSIS

Catalog No: CLP-004
Description: p-Bromofluorobenzene
Lot: 216071230
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Jul 20, 2016
Expiration: Jul 20, 2026
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
p-Bromofluorobenzene	460-00-4	100.0	25.01	25.01

1248476

1248482 - 1248485

BFB_00074700078

rec'd
8-10-17
AMB

A product with a 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

Page 1 of 1

For use in routine laboratory analysis.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

OR-ORG/INO-001
Rev. 5/16

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 ±5%, the U_{CRM} for inorganic products is ±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

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CERTIFICATE OF ANALYSIS

Catalog No: CLP-004
Description: p-Bromofluorobenzene
Lot: 216071230
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*



Signal Word: Danger

Date Certified: Jul 20, 2016
Expiration: Jul 20, 2026
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
p-Bromofluorobenzene	460-00-4	100.0	25.01	25.01

1248476

1248482 - 1248485

BFB_00074700078

rec'd
8-10-17
AMB

A product with a 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

Page 1 of 1

For use in routine laboratory analysis.

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

   AR-1463

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

   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 ±5%, the U_{CRM} for inorganic products is ±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

Ethanol P_00007

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 571994 **Lot No.:** A0123787

Description : 8260 Ethanol Standard

8260 Ethanol Standard 100,000 µg/ml, P&T Methanol, 1 ml/ampul

REC'D 7-24-17 JDH

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

Expiration Date : December 31, 2019 **Storage:** 0°C or colder

1261911, 1261919 JDH 8-27-17

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Ethanol		100,062.7 µg/mL	+/-	585.8587	µg/mL	Gravimetric
	CAS #	64-17-5 (Lot SHBG4100V)		+/-	2,143.4667	µg/mL	Unstressed
	Purity	99%		+/-	2,205.7173	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)

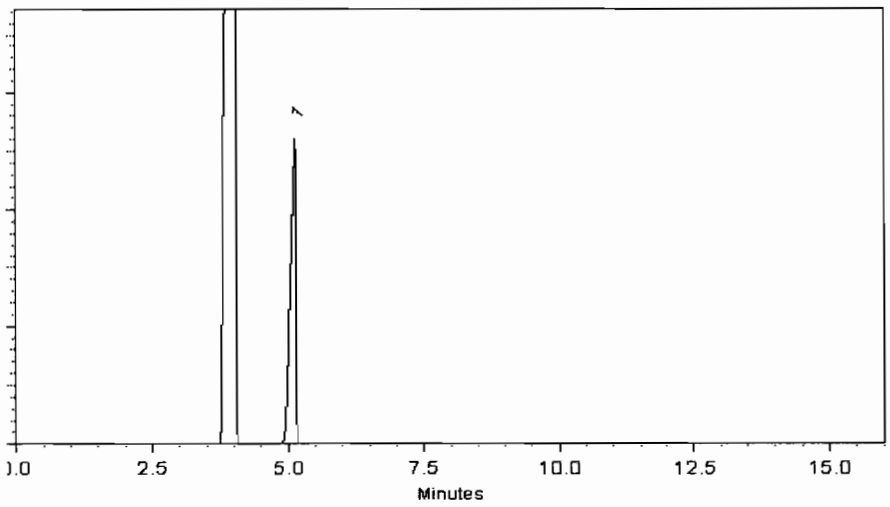
Carrier Gas:
hydrogen-constant pressure 11 psi.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/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.

Cathleen Soltis - Mix Technician

Date Mixed: 28-Dec-2016 **Balance:** 1125113331

Amanda Miller - Operations Tech-ARM QC

Date Passed: 03-Jan-2017

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.: 280-102516-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTXVMS30 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
6MW2006	280-102516-1	110	115	96	91
6MW2006D	280-102516-2	113	118	109	100
6MW2206	280-102516-3	109	115	98	96
6MW2306	280-102516-4	109	115	100	92
6MW2406	280-102516-5	104	111	98	90
6MW2506 RA	280-102516-6 RA	108	115	103	92
6MW2606	280-102516-7	109	114	101	90
TB07	280-102516-8	99	100	97	93
FB03	280-102516-9	104	111	101	97
	MB 160-333745/7	101	106	102	97
	MB 160-333931/7	102	109	103	97
	LCS 160-333745/4	96	101	101	104
	LCS 160-333931/4	96	102	103	101
	LCSD 160-333745/5	97	100	103	103
	LCSD 160-333931/5	97	102	103	104
6MW2006MS MS	280-102516-1 MS	99	106	98	98
6MW2606 MS	280-102516-7 MS	99	106	98	97
6MW2006MSD MSD	280-102516-1 MSD	103	108	104	106
6MW2606 MSD	280-102516-7 MSD	100	107	99	99

	QC LIMITS
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.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS9469.D

Lab ID: LCS 160-333745/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	51.9	104	78-124	
1,1,1-Trichloroethane	50.0	52.3	105	74-131	
1,1,2,2-Tetrachloroethane	50.0	51.6	103	71-121	
1,1,2-Trichloroethane	50.0	52.1	104	80-119	
1,1-Dichloroethane	50.0	50.9	102	77-125	
1,1-Dichloroethene	50.0	51.5	103	71-131	
1,1-Dichloropropene	50.0	52.9	106	79-125	
1,2,3-Trichlorobenzene	50.0	57.6	115	69-129	
1,2,3-Trichloropropane	50.0	52.7	105	73-122	
1,2,4-Trimethylbenzene	50.0	56.2	112	76-124	
1,2-Dibromo-3-Chloropropane	50.0	47.0	94	62-128	
1,2-Dibromoethane	50.0	52.5	105	80-120	
1,2-Dichloroethane	50.0	53.2	106	73-128	
1,2-Dichloropropane	50.0	53.8	108	78-122	
1,3,5-Trimethylbenzene	50.0	57.1	114	75-124	
1,3-Dichloropropane	50.0	52.7	105	80-119	
2,2-Dichloropropane	50.0	55.5	111	60-139	
2-Butanone (MEK)	50.0	61.5	123	56-143	
2-Chlorotoluene	50.0	55.1	110	79-122	
2-Hexanone	50.0	50.6	101	57-139	
4-Chlorotoluene	50.0	55.3	111	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	52.3	105	67-130	
Acetone	50.0	50.1	100	39-160	
Benzene	50.0	49.5	99	79-120	
Bromobenzene	50.0	54.8	110	80-120	
Bromochloromethane	50.0	48.4	97	78-123	
Bromodichloromethane	50.0	53.3	107	79-125	
Bromoform	50.0	56.2	112	66-130	
Bromomethane	50.0	43.3	87	53-141	
Carbon disulfide	50.0	51.4	103	64-133	
Carbon tetrachloride	50.0	52.1	104	72-136	
Chlorobenzene	50.0	51.1	102	82-118	
Chloroethane	50.0	48.0	96	60-138	
Chloroform	50.0	50.8	102	79-124	
Chloromethane	50.0	59.7	119	50-139	
cis-1,2-Dichloroethene	50.0	50.6	101	78-123	
cis-1,3-Dichloropropene	50.0	49.3	99	75-124	
Dibromochloromethane	50.0	51.9	104	74-126	
Dibromomethane	50.0	50.8	102	79-123	
Dichlorodifluoromethane	50.0	53.4	107	32-152	
Ethylbenzene	50.0	55.1	110	79-121	
Isopropylbenzene	50.0	57.9	116	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS9469.D

Lab ID: LCS 160-333745/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	52.4	105	80-121	
Methyl tert-butyl ether	50.0	49.5	99	71-124	
Methylene Chloride	50.0	48.8	98	74-124	
Naphthalene	50.0	52.1	104	61-128	
n-Butylbenzene	50.0	57.7	115	75-128	
N-Propylbenzene	50.0	57.6	115	76-126	
o-Xylene	50.0	51.0	102	78-122	
p-Isopropyltoluene	50.0	56.6	113	77-127	
sec-Butylbenzene	50.0	55.6	111	77-126	
Styrene	50.0	53.9	108	78-123	
tert-Butylbenzene	50.0	56.3	113	78-124	
Tetrachloroethene	50.0	51.9	104	74-129	
Toluene	50.0	51.8	104	80-121	
trans-1,2-Dichloroethene	50.0	48.5	97	75-124	
trans-1,3-Dichloropropene	50.0	49.7	99	73-127	
Trichloroethene	50.0	49.4	99	79-123	
Trichlorofluoromethane	50.0	55.0	110	65-141	
Vinyl chloride	50.0	49.6	99	58-137	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS9506.D

Lab ID: LCS 160-333931/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	51.5	103	78-124	
1,1,1-Trichloroethane	50.0	51.4	103	74-131	
1,1,2,2-Tetrachloroethane	50.0	50.1	100	71-121	
1,1,2-Trichloroethane	50.0	49.8	100	80-119	
1,1-Dichloroethane	50.0	50.3	101	77-125	
1,1-Dichloroethene	50.0	49.5	99	71-131	
1,1-Dichloropropene	50.0	51.9	104	79-125	
1,2,3-Trichlorobenzene	50.0	56.3	113	69-129	
1,2,3-Trichloropropane	50.0	50.4	101	73-122	
1,2,4-Trimethylbenzene	50.0	55.5	111	76-124	
1,2-Dibromo-3-Chloropropane	50.0	46.7	93	62-128	
1,2-Dibromoethane	50.0	51.2	102	80-120	
1,2-Dichloroethane	50.0	52.0	104	73-128	
1,2-Dichloropropane	50.0	52.3	105	78-122	
1,3,5-Trimethylbenzene	50.0	55.3	111	75-124	
1,3-Dichloropropane	50.0	51.4	103	80-119	
2,2-Dichloropropane	50.0	55.5	111	60-139	
2-Butanone (MEK)	50.0	58.2	116	56-143	
2-Chlorotoluene	50.0	55.6	111	79-122	
2-Hexanone	50.0	50.3	101	57-139	
4-Chlorotoluene	50.0	54.8	110	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	50.5	101	67-130	
Acetone	50.0	48.3	97	39-160	
Benzene	50.0	48.6	97	79-120	
Bromobenzene	50.0	53.2	106	80-120	
Bromochloromethane	50.0	47.6	95	78-123	
Bromodichloromethane	50.0	51.9	104	79-125	
Bromoform	50.0	53.5	107	66-130	
Bromomethane	50.0	51.6	103	53-141	
Carbon disulfide	50.0	50.3	101	64-133	
Carbon tetrachloride	50.0	51.9	104	72-136	
Chlorobenzene	50.0	51.6	103	82-118	
Chloroethane	50.0	51.8	104	60-138	
Chloroform	50.0	49.3	99	79-124	
Chloromethane	50.0	53.8	108	50-139	
cis-1,2-Dichloroethene	50.0	49.8	100	78-123	
cis-1,3-Dichloropropene	50.0	47.5	95	75-124	
Dibromochloromethane	50.0	51.3	103	74-126	
Dibromomethane	50.0	49.1	98	79-123	
Dichlorodifluoromethane	50.0	49.3	99	32-152	
Ethylbenzene	50.0	55.9	112	79-121	
Isopropylbenzene	50.0	56.8	114	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS9506.D

Lab ID: LCS 160-333931/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	51.7	103	80-121	
Methyl tert-butyl ether	50.0	49.0	98	71-124	
Methylene Chloride	50.0	47.1	94	74-124	
Naphthalene	50.0	51.6	103	61-128	
n-Butylbenzene	50.0	56.7	113	75-128	
N-Propylbenzene	50.0	56.8	114	76-126	
o-Xylene	50.0	51.2	102	78-122	
p-Isopropyltoluene	50.0	55.8	112	77-127	
sec-Butylbenzene	50.0	54.7	109	77-126	
Styrene	50.0	55.0	110	78-123	
tert-Butylbenzene	50.0	55.8	112	78-124	
Tetrachloroethene	50.0	51.3	103	74-129	
Toluene	50.0	51.2	102	80-121	
trans-1,2-Dichloroethene	50.0	47.8	96	75-124	
trans-1,3-Dichloropropene	50.0	49.2	98	73-127	
Trichloroethene	50.0	49.5	99	79-123	
Trichlorofluoromethane	50.0	53.9	108	65-141	
Vinyl chloride	50.0	48.6	97	58-137	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS9470.D

Lab ID: LCSD 160-333745/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	50.4	101	3	20	78-124	
1,1,1-Trichloroethane	50.0	53.1	106	2	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	48.9	98	5	20	71-121	
1,1,2-Trichloroethane	50.0	50.1	100	4	20	80-119	
1,1-Dichloroethane	50.0	50.8	102	0	20	77-125	
1,1-Dichloroethene	50.0	49.4	99	4	20	71-131	
1,1-Dichloropropene	50.0	52.2	104	1	20	79-125	
1,2,3-Trichlorobenzene	50.0	56.7	113	2	20	69-129	
1,2,3-Trichloropropane	50.0	50.6	101	4	20	73-122	
1,2,4-Trimethylbenzene	50.0	54.6	109	3	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	45.9	92	2	20	62-128	
1,2-Dibromoethane	50.0	50.1	100	5	20	80-120	
1,2-Dichloroethane	50.0	51.8	104	3	20	73-128	
1,2-Dichloropropane	50.0	52.9	106	2	20	78-122	
1,3,5-Trimethylbenzene	50.0	55.5	111	3	20	75-124	
1,3-Dichloropropane	50.0	51.1	102	3	20	80-119	
2,2-Dichloropropane	50.0	56.3	113	1	20	60-139	
2-Butanone (MEK)	50.0	59.3	119	4	20	56-143	
2-Chlorotoluene	50.0	56.4	113	2	20	79-122	
2-Hexanone	50.0	51.5	103	2	20	57-139	
4-Chlorotoluene	50.0	54.4	109	2	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	51.5	103	2	20	67-130	
Acetone	50.0	48.3	97	4	20	39-160	
Benzene	50.0	49.0	98	1	20	79-120	
Bromobenzene	50.0	52.9	106	4	20	80-120	
Bromochloromethane	50.0	49.1	98	2	20	78-123	
Bromodichloromethane	50.0	52.9	106	1	20	79-125	
Bromoform	50.0	52.3	105	7	20	66-130	
Bromomethane	50.0	48.6	97	12	20	53-141	
Carbon disulfide	50.0	50.2	100	2	20	64-133	
Carbon tetrachloride	50.0	52.1	104	0	20	72-136	
Chlorobenzene	50.0	50.5	101	1	20	82-118	
Chloroethane	50.0	50.8	102	6	20	60-138	
Chloroform	50.0	50.0	100	1	20	79-124	
Chloromethane	50.0	55.5	111	7	20	50-139	
cis-1,2-Dichloroethene	50.0	50.5	101	0	20	78-123	
cis-1,3-Dichloropropene	50.0	48.9	98	1	20	75-124	
Dibromochloromethane	50.0	50.9	102	2	20	74-126	
Dibromomethane	50.0	50.9	102	0	20	79-123	
Dichlorodifluoromethane	50.0	52.2	104	2	20	32-152	
Ethylbenzene	50.0	55.6	111	1	20	79-121	
Isopropylbenzene	50.0	57.1	114	2	20	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS9470.D

Lab ID: LCSD 160-333745/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m,p-Xylenes	50.0	51.5	103	2	20	80-121	
Methyl tert-butyl ether	50.0	50.5	101	2	20	71-124	
Methylene Chloride	50.0	48.0	96	2	20	74-124	
Naphthalene	50.0	51.6	103	1	20	61-128	
n-Butylbenzene	50.0	55.7	111	3	20	75-128	
N-Propylbenzene	50.0	56.2	112	2	20	76-126	
o-Xylene	50.0	50.6	101	1	20	78-122	
p-Isopropyltoluene	50.0	55.9	112	1	20	77-127	
sec-Butylbenzene	50.0	53.6	107	4	20	77-126	
Styrene	50.0	54.2	108	0	20	78-123	
tert-Butylbenzene	50.0	55.7	111	1	20	78-124	
Tetrachloroethene	50.0	50.7	101	2	20	74-129	
Toluene	50.0	51.3	103	1	20	80-121	
trans-1,2-Dichloroethene	50.0	49.6	99	2	20	75-124	
trans-1,3-Dichloropropene	50.0	50.1	100	1	20	73-127	
Trichloroethene	50.0	49.0	98	1	20	79-123	
Trichlorofluoromethane	50.0	52.7	105	4	20	65-141	
Vinyl chloride	50.0	49.4	99	1	20	58-137	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS9507.D

Lab ID: LCSD 160-333931/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	51.6	103	0	20	78-124	
1,1,1-Trichloroethane	50.0	53.3	107	4	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	50.3	101	0	20	71-121	
1,1,2-Trichloroethane	50.0	50.5	101	1	20	80-119	
1,1-Dichloroethane	50.0	51.2	102	2	20	77-125	
1,1-Dichloroethene	50.0	50.6	101	2	20	71-131	
1,1-Dichloropropene	50.0	53.6	107	3	20	79-125	
1,2,3-Trichlorobenzene	50.0	57.2	114	2	20	69-129	
1,2,3-Trichloropropane	50.0	51.3	103	2	20	73-122	
1,2,4-Trimethylbenzene	50.0	55.6	111	0	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	46.3	93	1	20	62-128	
1,2-Dibromoethane	50.0	51.2	102	0	20	80-120	
1,2-Dichloroethane	50.0	52.6	105	1	20	73-128	
1,2-Dichloropropane	50.0	53.5	107	2	20	78-122	
1,3,5-Trimethylbenzene	50.0	56.5	113	2	20	75-124	
1,3-Dichloropropane	50.0	51.7	103	1	20	80-119	
2,2-Dichloropropane	50.0	59.5	119	7	20	60-139	
2-Butanone (MEK)	50.0	56.3	113	3	20	56-143	
2-Chlorotoluene	50.0	56.7	113	2	20	79-122	
2-Hexanone	50.0	50.3	101	0	20	57-139	
4-Chlorotoluene	50.0	55.1	110	1	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	51.1	102	1	20	67-130	
Acetone	50.0	46.4	93	4	20	39-160	
Benzene	50.0	49.4	99	2	20	79-120	
Bromobenzene	50.0	53.9	108	1	20	80-120	
Bromochloromethane	50.0	47.1	94	1	20	78-123	
Bromodichloromethane	50.0	52.3	105	1	20	79-125	
Bromoform	50.0	52.5	105	2	20	66-130	
Bromomethane	50.0	52.7	105	2	20	53-141	
Carbon disulfide	50.0	51.1	102	1	20	64-133	
Carbon tetrachloride	50.0	53.1	106	2	20	72-136	
Chlorobenzene	50.0	51.7	103	0	20	82-118	
Chloroethane	50.0	52.2	104	1	20	60-138	
Chloroform	50.0	50.6	101	3	20	79-124	
Chloromethane	50.0	53.9	108	0	20	50-139	
cis-1,2-Dichloroethene	50.0	50.7	101	2	20	78-123	
cis-1,3-Dichloropropene	50.0	48.3	97	2	20	75-124	
Dibromochloromethane	50.0	50.6	101	1	20	74-126	
Dibromomethane	50.0	49.4	99	1	20	79-123	
Dichlorodifluoromethane	50.0	48.4	97	2	20	32-152	
Ethylbenzene	50.0	56.7	113	1	20	79-121	
Isopropylbenzene	50.0	58.1	116	2	20	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS9507.D

Lab ID: LCSD 160-333931/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m,p-Xylenes	50.0	51.8	104	0	20	80-121	
Methyl tert-butyl ether	50.0	50.0	100	2	20	71-124	
Methylene Chloride	50.0	48.0	96	2	20	74-124	
Naphthalene	50.0	52.2	104	1	20	61-128	
n-Butylbenzene	50.0	57.2	114	1	20	75-128	
N-Propylbenzene	50.0	58.1	116	2	20	76-126	
o-Xylene	50.0	51.2	102	0	20	78-122	
p-Isopropyltoluene	50.0	57.1	114	2	20	77-127	
sec-Butylbenzene	50.0	55.6	111	2	20	77-126	
Styrene	50.0	54.4	109	1	20	78-123	
tert-Butylbenzene	50.0	56.9	114	2	20	78-124	
Tetrachloroethene	50.0	52.2	104	2	20	74-129	
Toluene	50.0	51.4	103	0	20	80-121	
trans-1,2-Dichloroethene	50.0	49.1	98	3	20	75-124	
trans-1,3-Dichloropropene	50.0	49.8	100	1	20	73-127	
Trichloroethene	50.0	49.8	100	1	20	79-123	
Trichlorofluoromethane	50.0	53.7	107	0	20	65-141	
Vinyl chloride	50.0	49.0	98	1	20	58-137	

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.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP9476.D

Lab ID: 280-102516-1 MS Client ID: 6MW2006MS 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	50.2	100	78-124	
1,1,1-Trichloroethane	50.0	1.0 U	51.6	103	74-131	
1,1,2,2-Tetrachloroethane	50.0	2.0 U	48.4	97	71-121	
1,1,2-Trichloroethane	50.0	1.0 U	50.0	100	80-119	
1,1-Dichloroethane	50.0	1.0 U	50.4	101	77-125	
1,1-Dichloroethene	50.0	1.0 U	47.9	96	71-131	
1,1-Dichloropropene	50.0	1.0 U	50.4	101	79-125	
1,2,3-Trichlorobenzene	50.0	2.0 U	53.5	107	69-129	
1,2,3-Trichloropropane	50.0	1.0 U	49.5	99	73-122	
1,2,4-Trimethylbenzene	50.0	2.0 U	52.5	105	76-124	
1,2-Dibromo-3-Chloropropane	50.0	2.0 U	42.9	86	62-128	
1,2-Dibromoethane	50.0	2.0 U	50.3	101	80-120	
1,2-Dichloroethane	50.0	1.0 U	54.2	108	73-128	
1,2-Dichloropropane	50.0	1.0 U	52.7	105	78-122	
1,3,5-Trimethylbenzene	50.0	2.0 U	53.0	106	75-124	
1,3-Dichloropropane	50.0	1.0 U	51.1	102	80-119	
2,2-Dichloropropane	50.0	2.0 U	56.8	114	60-139	
2-Butanone (MEK)	50.0	5.0 U	57.6	115	56-143	
2-Chlorotoluene	50.0	2.0 U	52.7	105	79-122	
2-Hexanone	50.0	2.0 U	49.3	99	57-139	
4-Chlorotoluene	50.0	2.0 U	52.8	106	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	2.0 U	49.6	99	67-130	
Acetone	50.0	10 U	46.8	94	39-160	
Benzene	50.0	1.0 U	49.2	98	79-120	
Bromobenzene	50.0	2.0 U	51.7	103	80-120	
Bromochloromethane	50.0	2.0 U	49.6	99	78-123	
Bromodichloromethane	50.0	2.0 U	54.0	108	79-125	
Bromoform	50.0	1.0 U	52.7	105	66-130	
Bromomethane	50.0	2.0 U	44.1	88	53-141	
Carbon disulfide	50.0	1.0 U	50.7	101	64-133	
Carbon tetrachloride	50.0	1.0 U	49.8	100	72-136	
Chlorobenzene	50.0	1.0 U	49.7	99	82-118	
Chloroethane	50.0	1.0 U	55.1	110	60-138	
Chloroform	50.0	1.0 U	49.5	99	79-124	
Chloromethane	50.0	2.0 U	44.3	89	50-139	
cis-1,2-Dichloroethene	50.0	1.0 U	51.6	103	78-123	
cis-1,3-Dichloropropene	50.0	1.0 U	46.7	93	75-124	
Dibromochloromethane	50.0	1.0 U	51.1	102	74-126	
Dibromomethane	50.0	2.0 U	51.5	103	79-123	
Dichlorodifluoromethane	50.0	2.0 U	49.5	99	32-152	
Ethylbenzene	50.0	1.0 U	55.4	111	79-121	
Isopropylbenzene	50.0	2.0 U	53.1	106	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.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP9476.D

Lab ID: 280-102516-1 MS Client ID: 6MW2006MS 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	49.6	99	80-121	
Methyl tert-butyl ether	50.0	2.0 U	50.1	100	71-124	
Methylene Chloride	50.0	5.0 U	48.8	98	74-124	
Naphthalene	50.0	2.0 U	46.2	92	61-128	
n-Butylbenzene	50.0	2.0 U	53.7	107	75-128	
N-Propylbenzene	50.0	2.0 U	53.9	108	76-126	
o-Xylene	50.0	1.0 U	48.9	98	78-122	
p-Isopropyltoluene	50.0	2.0 U	52.6	105	77-127	
sec-Butylbenzene	50.0	2.0 U	51.2	102	77-126	
Styrene	50.0	1.0 U	54.2	108	78-123	
tert-Butylbenzene	50.0	2.0 U	52.2	104	78-124	
Tetrachloroethene	50.0	1.0 U	49.9	100	74-129	
Toluene	50.0	1.0 U	49.6	99	80-121	
trans-1,2-Dichloroethene	50.0	1.0 U	47.7	95	75-124	
trans-1,3-Dichloropropene	50.0	1.0 U	48.8	98	73-127	
Trichloroethene	50.0	1.0 U	49.0	98	79-123	
Trichlorofluoromethane	50.0	2.0 U	53.6	107	65-141	
Vinyl chloride	50.0	1.0 U	42.9	86	58-137	

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.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP9515.D

Lab ID: 280-102516-7 MS Client ID: 6MW2606 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	52.2	104	78-124	
1,1,1-Trichloroethane	50.0	1.0 U	58.5	117	74-131	
1,1,2,2-Tetrachloroethane	50.0	2.0 U	50.4	101	71-121	
1,1,2-Trichloroethane	50.0	1.0 U	52.3	105	80-119	
1,1-Dichloroethane	50.0	1.0 U	57.0	114	77-125	
1,1-Dichloroethene	50.0	1.0 U	56.6	113	71-131	
1,1-Dichloropropene	50.0	1.0 U	57.3	115	79-125	
1,2,3-Trichlorobenzene	50.0	2.0 U	55.5	111	69-129	
1,2,3-Trichloropropane	50.0	1.0 U	50.4	101	73-122	
1,2,4-Trimethylbenzene	50.0	2.0 U	54.9	110	76-124	
1,2-Dibromo-3-Chloropropane	50.0	2.0 U	45.9	92	62-128	
1,2-Dibromoethane	50.0	2.0 U	51.5	103	80-120	
1,2-Dichloroethane	50.0	1.0 U	57.0	114	73-128	
1,2-Dichloropropane	50.0	1.0 U	58.4	117	78-122	
1,3,5-Trimethylbenzene	50.0	2.0 U	55.8	112	75-124	
1,3-Dichloropropane	50.0	1.0 U	52.1	104	80-119	
2,2-Dichloropropane	50.0	2.0 U	61.3	123	60-139	
2-Butanone (MEK)	50.0	5.0 U	57.8	116	56-143	
2-Chlorotoluene	50.0	2.0 U	56.0	112	79-122	
2-Hexanone	50.0	2.0 U	47.2	94	57-139	
4-Chlorotoluene	50.0	2.0 U	55.0	110	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	2.0 U	48.7	97	67-130	
Acetone	50.0	10 U	46.7	93	39-160	
Benzene	50.0	1.0 U	54.9	110	79-120	
Bromobenzene	50.0	2.0 U	54.6	109	80-120	
Bromochloromethane	50.0	2.0 U	53.4	107	78-123	
Bromodichloromethane	50.0	2.0 U	57.2	114	79-125	
Bromoform	50.0	1.0 U	52.8	106	66-130	
Bromomethane	50.0	2.0 U	53.0	106	53-141	
Carbon disulfide	50.0	1.0 U	59.4	119	64-133	
Carbon tetrachloride	50.0	1.0 U	55.4	111	72-136	
Chlorobenzene	50.0	1.0 U	53.1	106	82-118	
Chloroethane	50.0	1.0 U	63.0	126	60-138	
Chloroform	50.0	1.0 U	54.8	110	79-124	
Chloromethane	50.0	2.0 U	50.7	101	50-139	
cis-1,2-Dichloroethene	50.0	2.3 J	59.9	115	78-123	
cis-1,3-Dichloropropene	50.0	1.0 U	49.6	99	75-124	
Dibromochloromethane	50.0	1.0 U	53.9	108	74-126	
Dibromomethane	50.0	2.0 U	55.1	110	79-123	
Dichlorodifluoromethane	50.0	2.0 U	58.3	117	32-152	
Ethylbenzene	50.0	1.0 U	56.8	114	79-121	
Isopropylbenzene	50.0	2.0 U	56.7	113	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.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP9515.D

Lab ID: 280-102516-7 MS Client ID: 6MW2606 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	52.5	105	80-121	
Methyl tert-butyl ether	50.0	2.0 U	53.8	108	71-124	
Methylene Chloride	50.0	5.0 U	54.5	109	74-124	
Naphthalene	50.0	2.0 U	46.8	94	61-128	
n-Butylbenzene	50.0	2.0 U	55.2	110	75-128	
N-Propylbenzene	50.0	2.0 U	57.0	114	76-126	
o-Xylene	50.0	1.0 U	51.4	103	78-122	
p-Isopropyltoluene	50.0	2.0 U	55.6	111	77-127	
sec-Butylbenzene	50.0	2.0 U	54.2	108	77-126	
Styrene	50.0	1.0 U	53.9	108	78-123	
tert-Butylbenzene	50.0	2.0 U	55.1	110	78-124	
Tetrachloroethene	50.0	1.0 U	53.2	106	74-129	
Toluene	50.0	1.0 U	53.3	107	80-121	
trans-1,2-Dichloroethene	50.0	1.0 U	56.0	112	75-124	
trans-1,3-Dichloropropene	50.0	1.0 U	49.5	99	73-127	
Trichloroethene	50.0	1.0 U	55.0	110	79-123	
Trichlorofluoromethane	50.0	2.0 U	63.9	128	65-141	
Vinyl chloride	50.0	2.6 J	52.1	99	58-137	

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.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP9477.D

Lab ID: 280-102516-1 MSD Client ID: 6MW2006MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	52.7	105	5	20	78-124	
1,1,1-Trichloroethane	50.0	56.3	113	9	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	50.4	101	4	20	71-121	
1,1,2-Trichloroethane	50.0	52.3	105	4	20	80-119	
1,1-Dichloroethane	50.0	54.2	108	7	20	77-125	
1,1-Dichloroethene	50.0	50.7	101	6	20	71-131	
1,1-Dichloropropene	50.0	55.1	110	9	20	79-125	
1,2,3-Trichlorobenzene	50.0	59.8	120	11	20	69-129	
1,2,3-Trichloropropane	50.0	52.7	105	6	20	73-122	
1,2,4-Trimethylbenzene	50.0	56.2	112	7	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	47.2	94	10	20	62-128	
1,2-Dibromoethane	50.0	55.0	110	9	20	80-120	
1,2-Dichloroethane	50.0	56.1	112	4	20	73-128	
1,2-Dichloropropane	50.0	57.5	115	9	20	78-122	
1,3,5-Trimethylbenzene	50.0	56.2	112	6	20	75-124	
1,3-Dichloropropane	50.0	55.5	111	8	20	80-119	
2,2-Dichloropropane	50.0	61.8	124	8	20	60-139	
2-Butanone (MEK)	50.0	62.2	124	8	20	56-143	
2-Chlorotoluene	50.0	57.3	115	8	20	79-122	
2-Hexanone	50.0	53.5	107	8	20	57-139	
4-Chlorotoluene	50.0	55.2	110	4	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	53.4	107	7	20	67-130	
Acetone	50.0	52.6	105	12	20	39-160	
Benzene	50.0	52.7	105	7	20	79-120	
Bromobenzene	50.0	55.4	111	7	20	80-120	
Bromochloromethane	50.0	49.9	100	1	20	78-123	
Bromodichloromethane	50.0	56.6	113	5	20	79-125	
Bromoform	50.0	54.3	109	3	20	66-130	
Bromomethane	50.0	48.6	97	10	20	53-141	
Carbon disulfide	50.0	54.0	108	6	20	64-133	
Carbon tetrachloride	50.0	54.0	108	8	20	72-136	
Chlorobenzene	50.0	53.1	106	7	20	82-118	
Chloroethane	50.0	57.3	115	4	20	60-138	
Chloroform	50.0	54.2	108	9	20	79-124	
Chloromethane	50.0	48.2	96	8	20	50-139	
cis-1,2-Dichloroethene	50.0	55.7	111	8	20	78-123	
cis-1,3-Dichloropropene	50.0	48.8	98	4	20	75-124	
Dibromochloromethane	50.0	54.2	108	6	20	74-126	
Dibromomethane	50.0	54.3	109	5	20	79-123	
Dichlorodifluoromethane	50.0	51.5	103	4	20	32-152	
Ethylbenzene	50.0	58.5	117	5	20	79-121	
Isopropylbenzene	50.0	57.8	116	9	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.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP9477.D

Lab ID: 280-102516-1 MSD Client ID: 6MW2006MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m,p-Xylenes	50.0	53.8	108	8	20	80-121	
Methyl tert-butyl ether	50.0	54.1	108	8	20	71-124	
Methylene Chloride	50.0	50.5	101	3	20	74-124	
Naphthalene	50.0	52.6	105	13	20	61-128	
n-Butylbenzene	50.0	56.5	113	5	20	75-128	
N-Propylbenzene	50.0	57.2	114	6	20	76-126	
o-Xylene	50.0	52.0	104	6	20	78-122	
p-Isopropyltoluene	50.0	56.3	113	7	20	77-127	
sec-Butylbenzene	50.0	54.2	108	6	20	77-126	
Styrene	50.0	56.1	112	3	20	78-123	
tert-Butylbenzene	50.0	55.9	112	7	20	78-124	
Tetrachloroethene	50.0	52.5	105	5	20	74-129	
Toluene	50.0	52.4	105	5	20	80-121	
trans-1,2-Dichloroethene	50.0	51.4	103	7	20	75-124	
trans-1,3-Dichloropropene	50.0	51.2	102	5	20	73-127	
Trichloroethene	50.0	52.8	106	7	20	79-123	
Trichlorofluoromethane	50.0	56.0	112	4	20	65-141	
Vinyl chloride	50.0	48.4	97	12	20	58-137	

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.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP9516.D

Lab ID: 280-102516-7 MSD Client ID: 6MW2606 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	51.7	103	1	20	78-124	
1,1,1-Trichloroethane	50.0	56.2	112	4	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	50.1	100	0	20	71-121	
1,1,2-Trichloroethane	50.0	52.0	104	1	20	80-119	
1,1-Dichloroethane	50.0	54.7	109	4	20	77-125	
1,1-Dichloroethene	50.0	54.8	110	3	20	71-131	
1,1-Dichloropropene	50.0	55.7	111	3	20	79-125	
1,2,3-Trichlorobenzene	50.0	57.1	114	3	20	69-129	
1,2,3-Trichloropropane	50.0	53.1	106	5	20	73-122	
1,2,4-Trimethylbenzene	50.0	53.2	106	3	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	44.9	90	2	20	62-128	
1,2-Dibromoethane	50.0	51.8	104	1	20	80-120	
1,2-Dichloroethane	50.0	57.4	115	1	20	73-128	
1,2-Dichloropropane	50.0	58.0	116	1	20	78-122	
1,3,5-Trimethylbenzene	50.0	54.0	108	3	20	75-124	
1,3-Dichloropropane	50.0	52.8	106	1	20	80-119	
2,2-Dichloropropane	50.0	62.1	124	1	20	60-139	
2-Butanone (MEK)	50.0	61.7	123	7	20	56-143	
2-Chlorotoluene	50.0	54.6	109	3	20	79-122	
2-Hexanone	50.0	49.2	98	4	20	57-139	
4-Chlorotoluene	50.0	53.4	107	3	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	51.0	102	5	20	67-130	
Acetone	50.0	50.8	102	9	20	39-160	
Benzene	50.0	52.7	105	4	20	79-120	
Bromobenzene	50.0	52.7	105	3	20	80-120	
Bromochloromethane	50.0	53.1	106	1	20	78-123	
Bromodichloromethane	50.0	55.3	111	3	20	79-125	
Bromoform	50.0	52.9	106	0	20	66-130	
Bromomethane	50.0	54.9	110	3	20	53-141	
Carbon disulfide	50.0	57.2	114	4	20	64-133	
Carbon tetrachloride	50.0	54.0	108	3	20	72-136	
Chlorobenzene	50.0	51.2	102	4	20	82-118	
Chloroethane	50.0	64.4	129	2	20	60-138	
Chloroform	50.0	54.0	108	1	20	79-124	
Chloromethane	50.0	51.7	103	2	20	50-139	
cis-1,2-Dichloroethene	50.0	58.0	111	3	20	78-123	
cis-1,3-Dichloropropene	50.0	49.0	98	1	20	75-124	
Dibromochloromethane	50.0	53.2	106	1	20	74-126	
Dibromomethane	50.0	53.6	107	3	20	79-123	
Dichlorodifluoromethane	50.0	58.1	116	0	20	32-152	
Ethylbenzene	50.0	54.9	110	3	20	79-121	
Isopropylbenzene	50.0	55.1	110	3	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.: 280-102516-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP9516.D

Lab ID: 280-102516-7 MSD Client ID: 6MW2606 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m,p-Xylenes	50.0	51.4	103	2	20	80-121	
Methyl tert-butyl ether	50.0	57.3	115	6	20	71-124	
Methylene Chloride	50.0	54.4	109	0	20	74-124	
Naphthalene	50.0	51.3	103	9	20	61-128	
n-Butylbenzene	50.0	54.4	109	1	20	75-128	
N-Propylbenzene	50.0	55.0	110	3	20	76-126	
o-Xylene	50.0	50.2	100	2	20	78-122	
p-Isopropyltoluene	50.0	55.3	111	1	20	77-127	
sec-Butylbenzene	50.0	52.4	105	3	20	77-126	
Styrene	50.0	53.4	107	1	20	78-123	
tert-Butylbenzene	50.0	53.8	108	2	20	78-124	
Tetrachloroethene	50.0	51.1	102	4	20	74-129	
Toluene	50.0	51.8	104	3	20	80-121	
trans-1,2-Dichloroethene	50.0	54.6	109	3	20	75-124	
trans-1,3-Dichloropropene	50.0	50.4	101	2	20	73-127	
Trichloroethene	50.0	52.2	104	5	20	79-123	
Trichlorofluoromethane	50.0	60.5	121	5	20	65-141	
Vinyl chloride	50.0	54.0	103	4	20	58-137	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab File ID: XBLK9472.D Lab Sample ID: MB 160-333745/7

Matrix: Water Heated Purge:(Y/N) Y

Instrument ID: VMSX Date Analyzed: 10/24/2017 21:41

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 160-333745/4	XLCS9469.D	10/24/2017 20:26
	LCSD 160-333745/5	XLCS9470.D	10/24/2017 20:51
TB07	280-102516-8	XSMP9473.D	10/24/2017 22:06
FB03	280-102516-9	XSMP9474.D	10/24/2017 22:30
6MW2006	280-102516-1	XSMP9475.D	10/24/2017 22:55
6MW2006MS MS	280-102516-1 MS	XSMP9476.D	10/24/2017 23:19
6MW2006MSD MSD	280-102516-1 MSD	XSMP9477.D	10/24/2017 23:44
6MW2006D	280-102516-2	XSMP9479.D	10/25/2017 00:33
6MW2206	280-102516-3	XSMP9480.D	10/25/2017 00:58

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab File ID: XBLK9509.D Lab Sample ID: MB 160-333931/7

Matrix: Water Heated Purge:(Y/N) Y

Instrument ID: VMSX Date Analyzed: 10/25/2017 17:26

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 160-333931/4	XLCS9506.D	10/25/2017 16:11
	LCSD 160-333931/5	XLCS9507.D	10/25/2017 16:36
6MW2306	280-102516-4	XSMP9510.D	10/25/2017 17:52
6MW2406	280-102516-5	XSMP9511.D	10/25/2017 18:26
6MW2606	280-102516-7	XSMP9513.D	10/25/2017 19:30
6MW2506 RA	280-102516-6 RA	XSMP9514.D	10/25/2017 20:22
6MW2606 MS	280-102516-7 MS	XSMP9515.D	10/25/2017 20:47
6MW2606 MSD	280-102516-7 MSD	XSMP9516.D	10/25/2017 21:12

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

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab File ID: XBFB8773.D BFB Injection Date: 09/14/2017

Instrument ID: VMSX BFB Injection Time: 22:23

Analysis Batch No.: 327349

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.2	
75	30.0 - 60.0 % of mass 95	44.2	
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	68.7	
175	5.0 - 9.0 % of mass 174	4.0	(5.8) 1
176	95.0 - 101.0 % of mass 174	66.0	(96.1) 1
177	5.0 - 9.0 % of mass 176	4.8	(7.3) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 160-327349/3	XICL8774.D	09/14/2017	22:55
	IC 160-327349/4	XICL8775.D	09/14/2017	23:20
	IC 160-327349/5	XICL8776.D	09/14/2017	23:45
	IC 160-327349/6	XICL8777.D	09/15/2017	00:10
	IC 160-327349/7	XICL8778.D	09/15/2017	00:35
	ICIS 160-327349/8	XICL8779.D	09/15/2017	01:00
	IC 160-327349/9	XICL8780.D	09/15/2017	01:25
	IC 160-327349/10	XICL8781.D	09/15/2017	01:49
	ICV 160-327349/13	XICV8784.D	09/15/2017	03:04

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

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab File ID: XBFB9467.D BFB Injection Date: 10/24/2017

Instrument ID: VMSX BFB Injection Time: 19:22

Analysis Batch No.: 333745

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.7	
75	30.0 - 60.0 % of mass 95	46.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	58.0	
175	5.0 - 9.0 % of mass 174	3.9	(6.8) 1
176	95.0 - 101.0 % of mass 174	55.2	(95.1) 1
177	5.0 - 9.0 % of mass 176	3.4	(6.2) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 160-333745/3	XCCV9468.D	10/24/2017	19:47
	LCS 160-333745/4	XLCS9469.D	10/24/2017	20:26
	LCSD 160-333745/5	XLCS9470.D	10/24/2017	20:51
	MB 160-333745/7	XBLK9472.D	10/24/2017	21:41
TB07	280-102516-8	XSMP9473.D	10/24/2017	22:06
FB03	280-102516-9	XSMP9474.D	10/24/2017	22:30
6MW2006	280-102516-1	XSMP9475.D	10/24/2017	22:55
6MW2006MS MS	280-102516-1 MS	XSMP9476.D	10/24/2017	23:19
6MW2006MSD MSD	280-102516-1 MSD	XSMP9477.D	10/24/2017	23:44
6MW2006D	280-102516-2	XSMP9479.D	10/25/2017	00:33
6MW2206	280-102516-3	XSMP9480.D	10/25/2017	00:58
	CCVC 160-333745/16	XCCV9481.D	10/25/2017	01:26

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

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab File ID: XBFB9504.D BFB Injection Date: 10/25/2017

Instrument ID: VMSX BFB Injection Time: 15:08

Analysis Batch No.: 333931

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.4	
75	30.0 - 60.0 % of mass 95	45.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	68.4	
175	5.0 - 9.0 % of mass 174	5.0	(7.3) 1
176	95.0 - 101.0 % of mass 174	66.2	(96.8) 1
177	5.0 - 9.0 % of mass 176	4.2	(6.3) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 160-333931/3	XCCV9505.D	10/25/2017	15:35
	LCS 160-333931/4	XLCS9506.D	10/25/2017	16:11
	LCSD 160-333931/5	XLCS9507.D	10/25/2017	16:36
	MB 160-333931/7	XBLK9509.D	10/25/2017	17:26
6MW2306	280-102516-4	XSMP9510.D	10/25/2017	17:52
6MW2406	280-102516-5	XSMP9511.D	10/25/2017	18:26
6MW2606	280-102516-7	XSMP9513.D	10/25/2017	19:30
6MW2506 RA	280-102516-6 RA	XSMP9514.D	10/25/2017	20:22
6MW2606 MS	280-102516-7 MS	XSMP9515.D	10/25/2017	20:47
6MW2606 MSD	280-102516-7 MSD	XSMP9516.D	10/25/2017	21:12
	CCVC 160-333931/15	XCCV9517.D	10/25/2017	21:37

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

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Sample No.: ICIS 160-327349/8 Date Analyzed: 09/15/2017 01:00

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm)

Lab File ID (Standard): XICL8779.D Heated Purge: (Y/N) Y

Calibration ID: 13526

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1587478	8.26	998654	11.98	393312	14.20
UPPER LIMIT		3174956	8.76	1997308	12.48	786624	14.70
LOWER LIMIT		793739	7.76	499327	11.48	196656	13.70
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 160-327349/13		1641837	8.26	980937	11.98	395613	14.20
CCV 160-333745/3		1004648	8.24	610984	11.98	251332	14.18
LCS 160-333745/4		1084508	8.24	662559	11.98	269219	14.18
LCSD 160-333745/5		1123755	8.26	681538	11.98	278917	14.18
MB 160-333745/7		1036863	8.26	613184	11.98	249881	14.18
280-102516-8	TB07	1019037	8.26	606384	11.98	245179	14.20
280-102516-9	FB03	960149	8.26	580363	11.98	234129	14.20
280-102516-1	6MW2006	818506	8.26	511097	11.98	210649	14.20
280-102516-1 MS	6MW2006MS MS	958145	8.26	599298	11.98	251663	14.18
280-102516-1 MSD	6MW2006MSD MSD	970808	8.26	607221	11.98	250863	14.18
280-102516-2	6MW2006D	863351	8.26	520537	11.98	216383	14.20
280-102516-3	6MW2206	885445	8.26	562360	11.98	214843	14.20
CCVC 160-333745/16		1046260	8.26	632183	11.98	258337	14.18
CCV 160-333931/3		1039993	8.24	626812	11.98	255890	14.18
LCS 160-333931/4		1062230	8.24	640940	11.98	264489	14.18
LCSD 160-333931/5		1073311	8.26	651076	11.98	266221	14.18
MB 160-333931/7		997139	8.26	584020	11.98	239501	14.20
280-102516-4	6MW2306	849685	8.26	512477	11.98	210040	14.20
280-102516-5	6MW2406	856741	8.26	519556	11.98	212864	14.20
280-102516-7	6MW2606	837525	8.26	503785	11.98	214882	14.18
280-102516-6 RA	6MW2506 RA	824563	8.24	499601	11.98	206397	14.18
280-102516-7 MS	6MW2606 MS	941975	8.26	591905	11.98	246344	14.18
280-102516-7 MSD	6MW2606 MSD	967128	8.26	604894	11.98	253504	14.18
CCVC 160-333931/15		1124985	8.26	679586	11.98	274910	14.18

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C DOD

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2006 | Lab Sample ID: 280-102516-1

Matrix: Water | Lab File ID: XSMP9475.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 22:55

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | 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.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2006 | Lab Sample ID: 280-102516-1

Matrix: Water | Lab File ID: XSMP9475.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 22:55

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | 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)	115		81-118
460-00-4	4-Bromofluorobenzene (Surr)	91		85-114
1868-53-7	Dibromofluoromethane (Surr)	110		80-119
2037-26-5	Toluene-d8 (Surr)	96		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9475.D
Lims ID: 280-102516-B-1
Client ID: 6MW2006
Sample Type: Client
Inject. Date: 24-Oct-2017 22:55:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-010
Misc. Info.: 280-102516-B-1
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:45:10 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:49:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.031				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62		2.197				ND	
121 Butadiene	39		2.209				ND	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
122 Dichlorofluoromethane	67		3.002				ND	
8 Ethyl ether	74		3.345				ND	
9 1,1-Dichloroethene	96		3.593				ND	
11 Ethanol	45		3.605				ND	
10 Carbon disulfide	76		3.605				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		3.700				ND	
13 Iodomethane	142		3.794				ND	
14 Acrolein	56		4.138				ND	
15 3-Chloro-1-propene	39		4.339				ND	
16 Isopropyl alcohol	45	4.493	4.493	0.000	21	2906	54.2	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.635				ND	
19 trans-1,2-Dichloroethene	96		4.788				ND	
20 Methyl acetate	74		4.871				ND	
21 Hexane	86		4.930				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
23 2-Methyl-2-propanol	59		5.226				ND	
24 Acetonitrile	41		5.368				ND	
25 Isopropyl ether	45		5.640				ND	
27 2-Chloro-1,3-butadiene	53		5.723				ND	
28 1,1-Dichloroethane	63		5.759				ND	
S 26 1,2-Dichloroethene, Total	96		5.816				ND	
29 Acrylonitrile	53		5.853				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		6.173				ND	
31 Vinyl acetate	43		6.197				ND	
32 cis-1,2-Dichloroethene	96		6.540				ND	
33 2,2-Dichloropropane	77		6.693				ND	
34 Cyclohexane	84		6.800				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.096				ND	
38 Tetrahydrofuran	71		7.155				ND	
39 Ethyl acetate	45		7.167				ND	
40 1,1,1-Trichloroethane	97		7.190				ND	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.190	0.001	93	181054	55.0	
42 1,1-Dichloropropene	75		7.368				ND	
43 2-Butanone (MEK)	43		7.392				ND	
124 Isooctane	57		7.534				ND	
117 n-Heptane	43		7.687				ND	
44 Benzene	78		7.687				ND	
45 Propionitrile	54		7.758				ND	
46 Methacrylonitrile	41		7.782				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	34	183327	57.4	
48 Tert-amyl methyl ether	73		7.889				ND	
49 1,2-Dichloroethane	62		7.971				ND	
50 Isobutyl alcohol	42		8.090				ND	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	818506	50.0	
125 1,4-Difluorobenzene	114		8.427				ND	
52 Methylcyclohexane	55		8.433				ND	
53 Trichloroethene	95		8.457				ND	
A 126 C6-C12	1	8.921	(3.966-13.876)		0	289082	NC	
54 n-Butanol	56		8.977				ND	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.131				ND	
123 Ethyl acrylate	55		9.214				ND	
57 Dichlorobromomethane	83		9.214				ND	
58 Methyl methacrylate	69		9.462				ND	
59 1,4-Dioxane	88		9.486				ND	
128 2-Pentanone	43		9.634				ND	
60 2-Chloroethyl vinyl ether	63		9.971				ND	
61 cis-1,3-Dichloropropene	75		10.019				ND	
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	707915	48.0	
63 Toluene	92		10.303				ND	
64 2-Nitropropane	43		10.610				ND	
65 Tetrachloroethene	164		10.764				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.800				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
69 Ethyl methacrylate	69		11.036				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.438				ND	
S 73 1,3-Dichloropropene, Total	75		11.620				ND	
118 n-Butyl acetate	43		11.628				ND	
74 2-Hexanone	43		11.722				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	511097	50.0	
75 1-Chlorohexane	91		11.995				ND	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	85	204697	45.3	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.497				ND	
93 trans-1,4-Dichloro-2-buten	53		13.533				ND	
94 Cyclohexanone	55		13.533				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.770				ND	
81 Pentachloroethane	167		13.776				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.054				ND	
100 1,3-Dichlorobenzene	146		14.125				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.184	0.012	97	210649	50.0	
102 1,4-Dichlorobenzene	146		14.207				ND	
119 1,2,3-Trimethylbenzene	105		14.219				ND	
120 Benzyl chloride	126		14.420				ND	
103 n-Butylbenzene	134		14.432				ND	
104 1,2-Dichlorobenzene	146		14.574				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.261				ND	
106 n-Nonyl Aldehyde	57		15.284				ND	
107 1,3,5-Trichlorobenzene	180		15.284				ND	
108 Hexachlorobutadiene	225		15.805				ND	
109 1,2,4-Trichlorobenzene	180		15.840				ND	
110 Naphthalene	128		16.112				ND	
111 1,2,3-Trichlorobenzene	180		16.266				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:

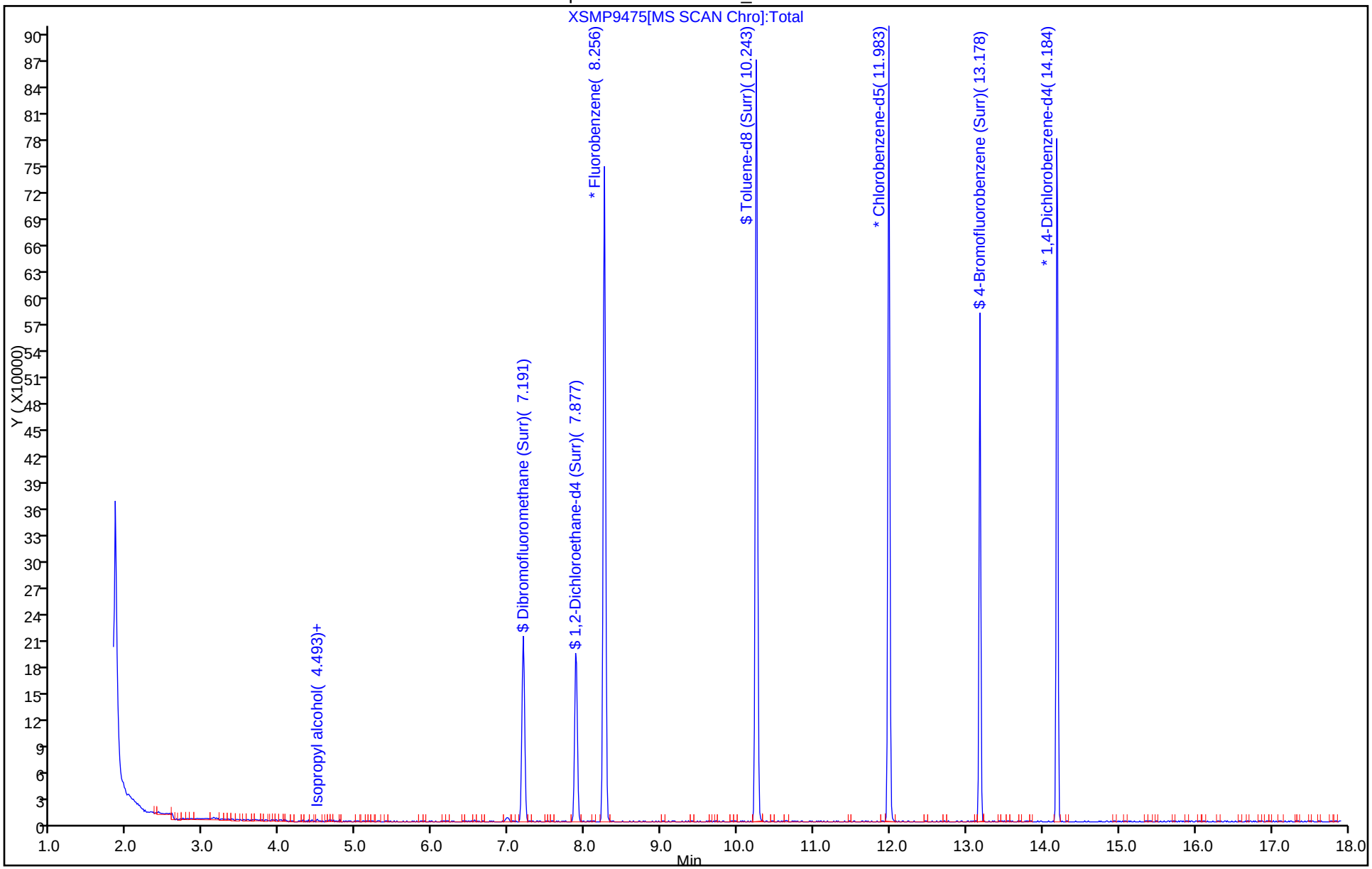
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 25-Oct-2017 21:49:24 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9475.D

Injection Date:	24-Oct-2017 22:55:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-102516-B-1	Lab Sample ID:	160-102516-1	Worklist Smp#:	10
Client ID:	6MW2006				
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\20171024-11757.b\XSMP9475.D
Lims ID: 280-102516-B-1
Client ID: 6MW2006
Sample Type: Client
Inject. Date: 24-Oct-2017 22:55:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-010
Misc. Info.: 280-102516-B-1
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:45:10 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:49:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	55.0	109.90
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	57.4	114.74
$ 62 Toluene-d8 (Surr)	50.0	48.0	96.01
$ 86 4-Bromofluorobenzene (Surr)	50.0	45.3	90.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2006D | Lab Sample ID: 280-102516-2

Matrix: Water | Lab File ID: XSMP9479.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 00:33

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | 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.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2006D | Lab Sample ID: 280-102516-2

Matrix: Water | Lab File ID: XSMP9479.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 00:33

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | 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)	118		81-118
460-00-4	4-Bromofluorobenzene (Surr)	100		85-114
1868-53-7	Dibromofluoromethane (Surr)	113		80-119
2037-26-5	Toluene-d8 (Surr)	109		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9479.D
Lims ID: 280-102516-B-2
Client ID: 6MW2006D
Sample Type: Client
Inject. Date: 25-Oct-2017 00:33:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-014
Misc. Info.: 280-102516-B-2
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:45:10 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:48:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62		2.197				ND	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
9 1,1-Dichloroethene	96		3.593				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.635				ND	
19 trans-1,2-Dichloroethene	96		4.788				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
28 1,1-Dichloroethane	63		5.759				ND	
32 cis-1,2-Dichloroethene	96		6.540				ND	
33 2,2-Dichloropropane	77		6.693				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.096				ND	
40 1,1,1-Trichloroethane	97		7.190				ND	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.190	0.001	92	196893	56.7	
42 1,1-Dichloropropene	75		7.368				ND	
43 2-Butanone (MEK)	43		7.392				ND	
44 Benzene	78		7.687				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.877	0.012	34	199626	59.2	
49 1,2-Dichloroethane	62		7.971				ND	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	863351	50.0	
53 Trichloroethene	95		8.457				ND	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.131				ND	
57 Dichlorobromomethane	83		9.214				ND	
61 cis-1,3-Dichloropropene	75		10.019				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	816210	54.3	
63 Toluene	92		10.303				ND	
65 Tetrachloroethene	164		10.764				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.800				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.438				ND	
74 2-Hexanone	43		11.722				ND	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	520537	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	85	231392	49.8	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.497				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.770				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.054				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.184	0.012	97	216383	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.261				ND	
110 Naphthalene	128		16.112				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

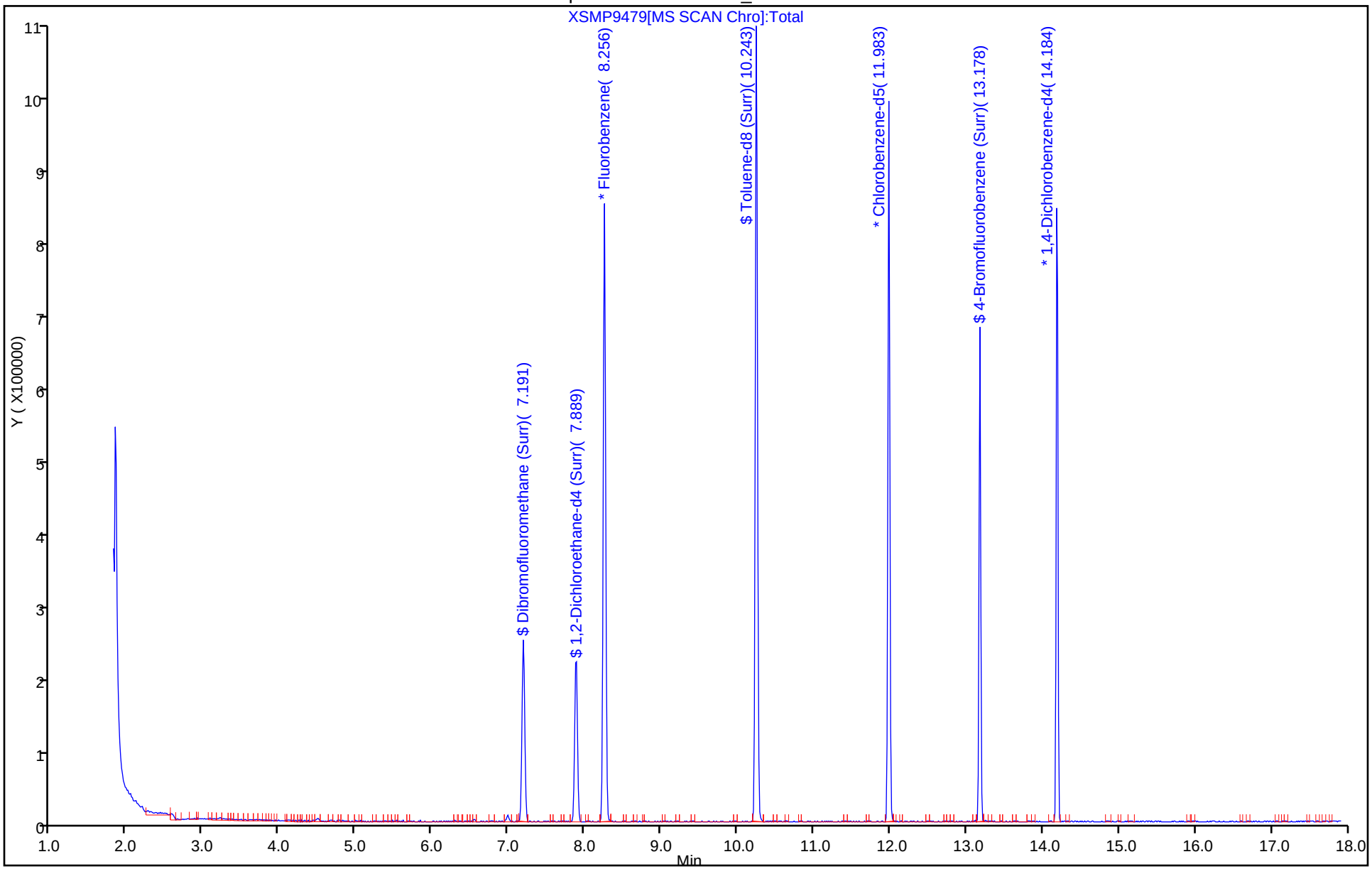
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8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 25-Oct-2017 21:48:07 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9479.D

Injection Date:	25-Oct-2017 00:33:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-102516-B-2	Lab Sample ID:	160-102516-2	Worklist Smp#:	14
Client ID:	6MW2006D				
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\20171024-11757.b\XSMP9479.D
Lims ID: 280-102516-B-2
Client ID: 6MW2006D
Sample Type: Client
Inject. Date: 25-Oct-2017 00:33:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-014
Misc. Info.: 280-102516-B-2
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:45:10 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:48:06

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	56.7	113.31
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	59.2	118.45
$ 62 Toluene-d8 (Surr)	50.0	54.3	108.69
$ 86 4-Bromofluorobenzene (Surr)	50.0	49.8	99.61

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2206 | Lab Sample ID: 280-102516-3

Matrix: Water | Lab File ID: XSMP9480.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 11:10

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 00:58

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | 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.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2206 | Lab Sample ID: 280-102516-3

Matrix: Water | Lab File ID: XSMP9480.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 11:10

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 00:58

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | 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	2.3	J	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)	115		81-118
460-00-4	4-Bromofluorobenzene (Surr)	96		85-114
1868-53-7	Dibromofluoromethane (Surr)	109		80-119
2037-26-5	Toluene-d8 (Surr)	98		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9480.D
Lims ID: 280-102516-B-3
Client ID: 6MW2206
Sample Type: Client
Inject. Date: 25-Oct-2017 00:58:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-015
Misc. Info.: 280-102516-B-3
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:45:10 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:48:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62		2.197				ND	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
9 1,1-Dichloroethene	96		3.593				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.635				ND	
19 trans-1,2-Dichloroethene	96		4.788				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
28 1,1-Dichloroethane	63		5.759				ND	
32 cis-1,2-Dichloroethene	96		6.540				ND	
33 2,2-Dichloropropane	77		6.693				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.096				ND	
40 1,1,1-Trichloroethane	97		7.190				ND	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.190	0.001	92	193970	54.4	
42 1,1-Dichloropropene	75		7.368				ND	
43 2-Butanone (MEK)	43		7.392				ND	
44 Benzene	78		7.687				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	33	199519	57.7	
49 1,2-Dichloroethane	62		7.971				ND	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	885445	50.0	
53 Trichloroethene	95		8.457				ND	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.131				ND	
57 Dichlorobromomethane	83		9.214				ND	
61 cis-1,3-Dichloropropene	75		10.019				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.244	10.243	0.001	94	793991	48.9	
63 Toluene	92	10.303	10.303	0.000	98	21274	2.26	
65 Tetrachloroethene	164		10.764				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.800				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.438				ND	
74 2-Hexanone	43		11.722				ND	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	89	562360	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	221860	48.1	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.497				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.770				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.054				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.184	0.012	97	214843	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.261				ND	
110 Naphthalene	128		16.112				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

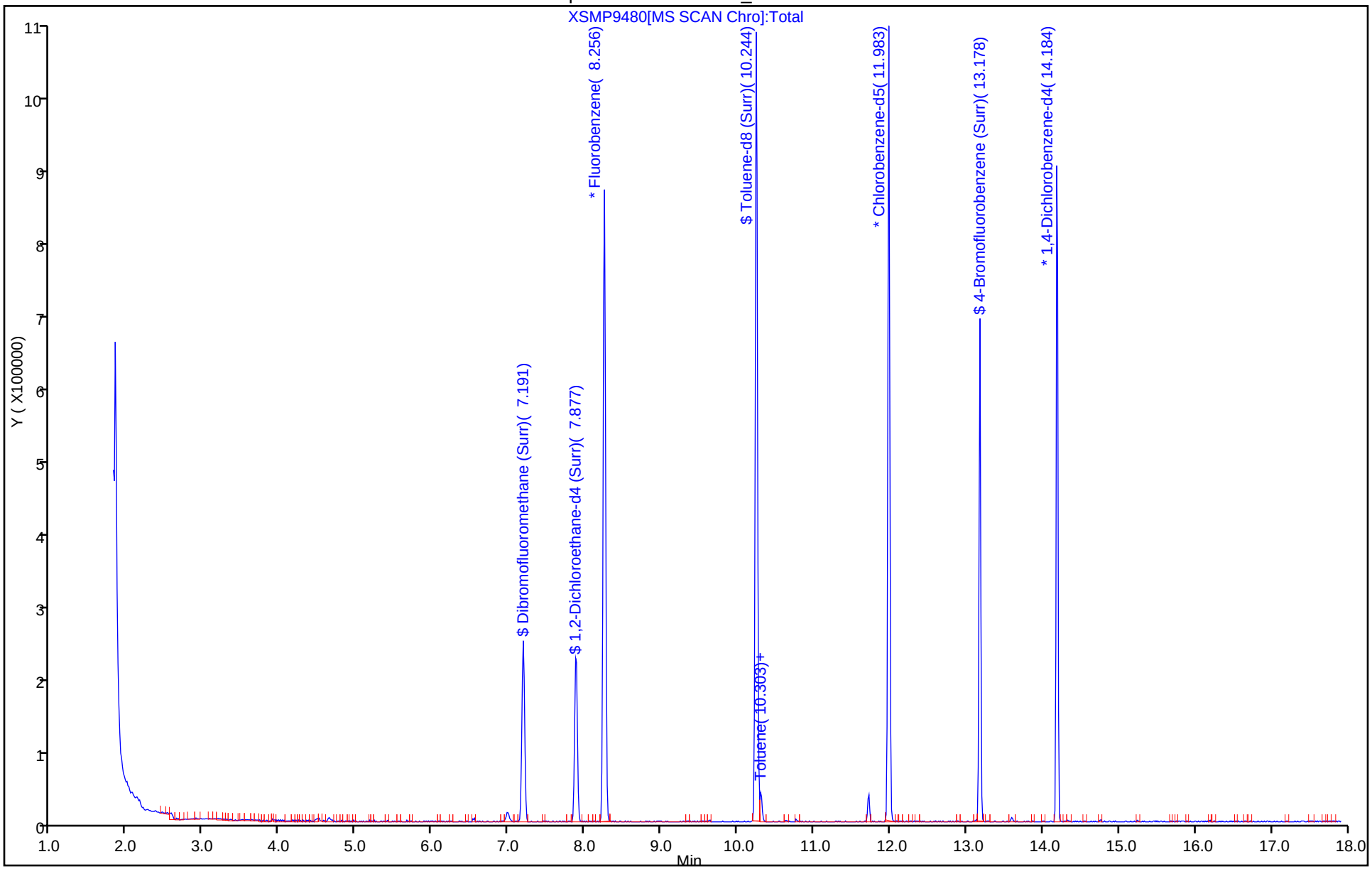
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 25-Oct-2017 21:48:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9480.D

Injection Date:	25-Oct-2017 00:58:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-102516-B-3	Lab Sample ID:	160-102516-3	Worklist Smp#:	15
Client ID:	6MW2206				
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\20171024-11757.b\XSMP9480.D
Lims ID: 280-102516-B-3
Client ID: 6MW2206
Sample Type: Client
Inject. Date: 25-Oct-2017 00:58:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-015
Misc. Info.: 280-102516-B-3
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:45:10 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:48:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	54.4	108.84
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	57.7	115.43
$ 62 Toluene-d8 (Surr)	50.0	48.9	97.87
$ 86 4-Bromofluorobenzene (Surr)	50.0	48.1	96.20

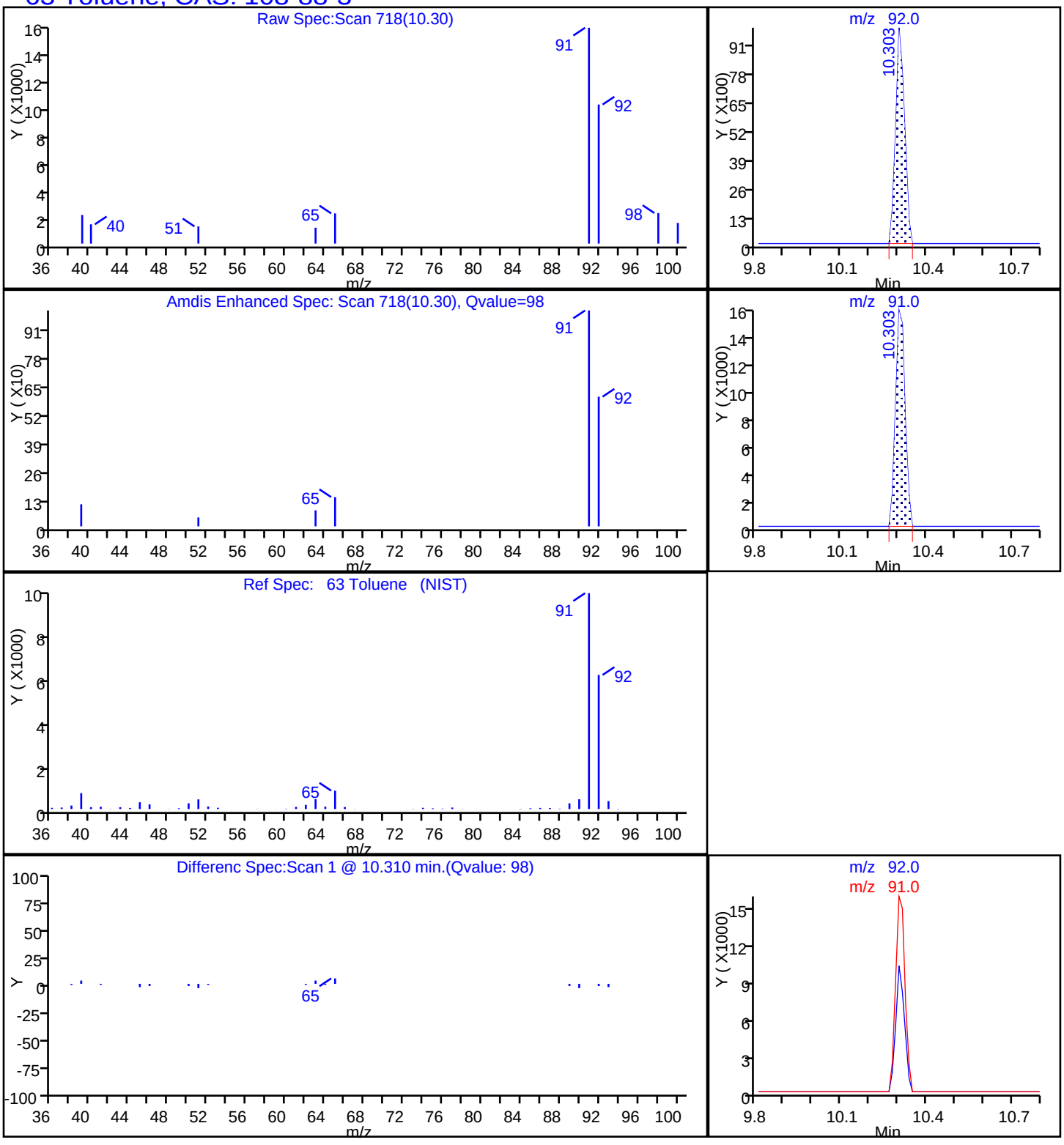
Report Date: 25-Oct-2017 21:48:40 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9480.D

Injection Date:	25-Oct-2017 00:58:30	Instrument ID:	VMSX		
Lims ID:	280-102516-B-3	Lab Sample ID:	160-102516-3		
Client ID:	6MW2206				
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		

63 Toluene, CAS: 108-88-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2306 | Lab Sample ID: 280-102516-4

Matrix: Water | Lab File ID: XSMP9510.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 11:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 17:52

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | 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.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2306 | Lab Sample ID: 280-102516-4

Matrix: Water | Lab File ID: XSMP9510.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 11:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 17:52

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | 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	1.1	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)	115		81-118
460-00-4	4-Bromofluorobenzene (Surr)	92		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\20171025-11764.b\XSMP9510.D
Lims ID: 280-102516-B-4
Client ID: 6MW2306
Sample Type: Client
Inject. Date: 25-Oct-2017 17:52:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-008
Misc. Info.: 280-102516-B-4
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:25:58 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:27:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.079				ND	
4 Vinyl chloride	62	2.197	2.185	0.012	95	5480	1.08	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.907				ND	
9 1,1-Dichloroethene	96		3.593				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.635				ND	
19 trans-1,2-Dichloroethene	96		4.777				ND	
22 Methyl tert-butyl ether	73		5.001				ND	
28 1,1-Dichloroethane	63		5.747				ND	
32 cis-1,2-Dichloroethene	96		6.540				ND	
33 2,2-Dichloropropane	77		6.682				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.084				ND	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.011	93	185845	54.3	
40 1,1,1-Trichloroethane	97		7.190				ND	
42 1,1-Dichloropropene	75		7.356				ND	
43 2-Butanone (MEK)	43		7.380				ND	
44 Benzene	78		7.687				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	33	191534	57.7	
49 1,2-Dichloroethane	62		7.960				ND	
* 51 Fluorobenzene	96	8.255	8.244	0.011	99	849685	50.0	
53 Trichloroethene	95		8.457				ND	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.119				ND	
57 Dichlorobromomethane	83		9.214				ND	
61 cis-1,3-Dichloropropene	75		10.019				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	736188	49.8	
63 Toluene	92		10.303				ND	
65 Tetrachloroethene	164		10.764				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.800				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.438				ND	
74 2-Hexanone	43		11.722				ND	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	89	512477	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.030				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.906				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	207646	46.0	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.486				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.770				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.054				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.184	0.012	98	210040	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.261				ND	
110 Naphthalene	128		16.112				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

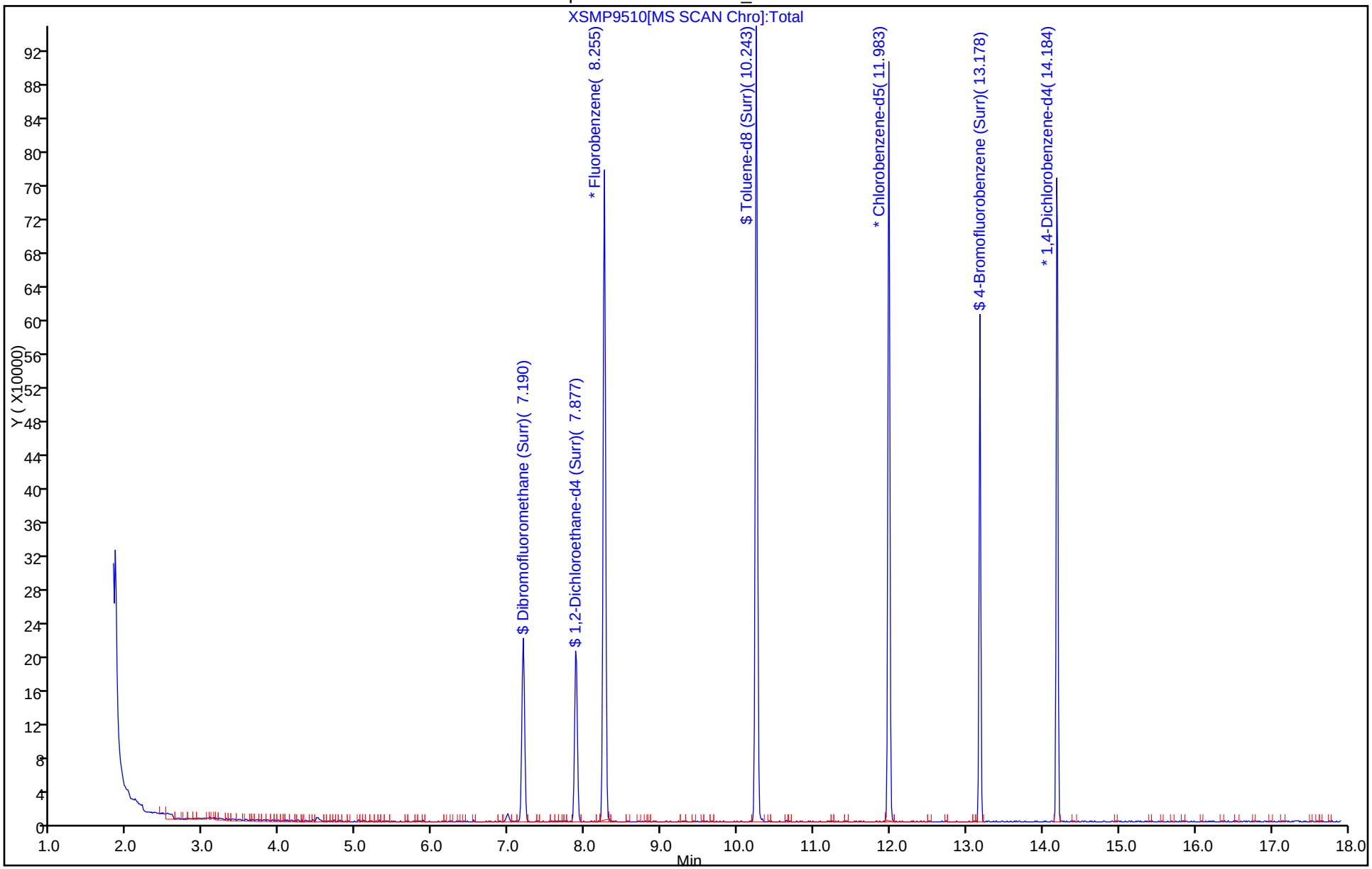
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 31-Oct-2017 16:27:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9510.D

Injection Date:	25-Oct-2017 17:52:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-102516-B-4	Lab Sample ID:	160-102516-4	Worklist Smp#:	8
Client ID:	6MW2306				
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\20171025-11764.b\XSMP9510.D
Lims ID: 280-102516-B-4
Client ID: 6MW2306
Sample Type: Client
Inject. Date: 25-Oct-2017 17:52:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-008
Misc. Info.: 280-102516-B-4
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:25:58 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:27:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	54.3	108.67
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	57.7	115.47
$ 62 Toluene-d8 (Surr)	50.0	49.8	99.58
$ 86 4-Bromofluorobenzene (Surr)	50.0	46.0	92.09

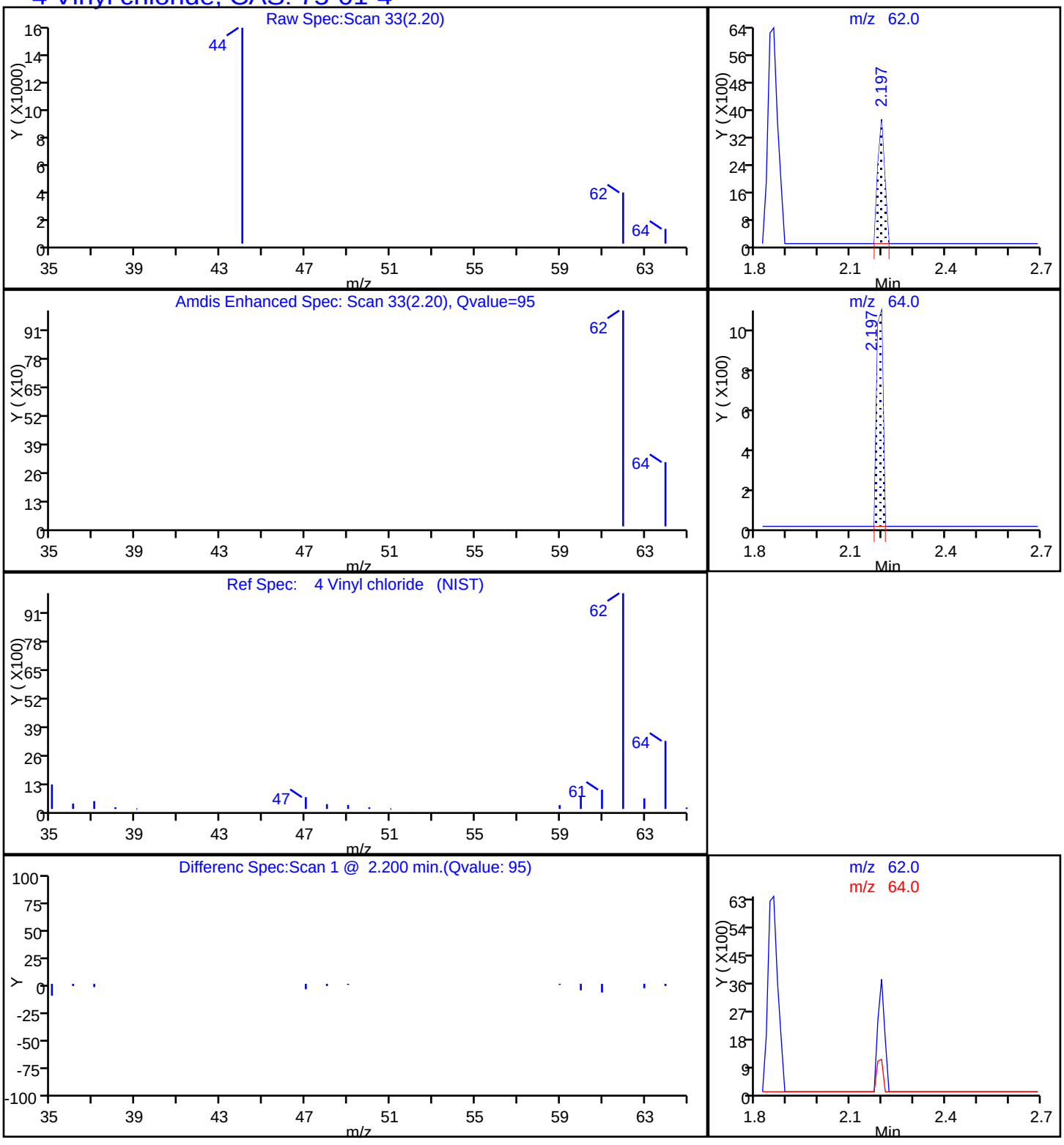
Report Date: 31-Oct-2017 16:27:08 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9510.D

Injection Date:	25-Oct-2017 17:52:30	Instrument ID:	VMSX		
Lims ID:	280-102516-B-4	Lab Sample ID:	160-102516-4		
Client ID:	6MW2306				
Operator ID:	JDH	ALS Bottle#:	7	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		

4 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2406 | Lab Sample ID: 280-102516-5

Matrix: Water | Lab File ID: XSMP9511.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 18:26

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | 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	3.7	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2406 | Lab Sample ID: 280-102516-5

Matrix: Water | Lab File ID: XSMP9511.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 18:26

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | 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	1.6	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	9.1		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)	90		85-114
1868-53-7	Dibromofluoromethane (Surr)	104		80-119
2037-26-5	Toluene-d8 (Surr)	98		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9511.D
Lims ID: 280-102516-B-5
Client ID: 6MW2406
Sample Type: Client
Inject. Date: 25-Oct-2017 18:26:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-009
Misc. Info.: 280-102516-B-5
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:30:22 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:34:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62	2.197	2.197	0.000	97	46800	9.15	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
9 1,1-Dichloroethene	96		3.605				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.528				ND	
18 Acetone	43		4.646				ND	
19 trans-1,2-Dichloroethene	96		4.788				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
28 1,1-Dichloroethane	63		5.759				ND	
32 cis-1,2-Dichloroethene	96	6.540	6.551	-0.011	78	16201	3.71	
33 2,2-Dichloropropane	77		6.693				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.096				ND	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.190	0.000	92	179150	51.9	
40 1,1,1-Trichloroethane	97		7.190				ND	
42 1,1-Dichloropropene	75		7.368				ND	
43 2-Butanone (MEK)	43		7.392				ND	
44 Benzene	78		7.699				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	34	186232	55.7	
49 1,2-Dichloroethane	62		7.971				ND	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	856741	50.0	
53 Trichloroethene	95	8.457	8.468	-0.011	91	7537	1.61	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.131				ND	
57 Dichlorobromomethane	83		9.226				ND	
61 cis-1,3-Dichloropropene	75		10.019				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	735864	49.1	
63 Toluene	92		10.303				ND	
65 Tetrachloroethene	164		10.764				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.799				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.438				ND	
74 2-Hexanone	43		11.722				ND	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	519556	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	85	205363	44.9	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.497				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.770				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.054				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.184	0.012	97	212864	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.260				ND	
110 Naphthalene	128		16.112				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

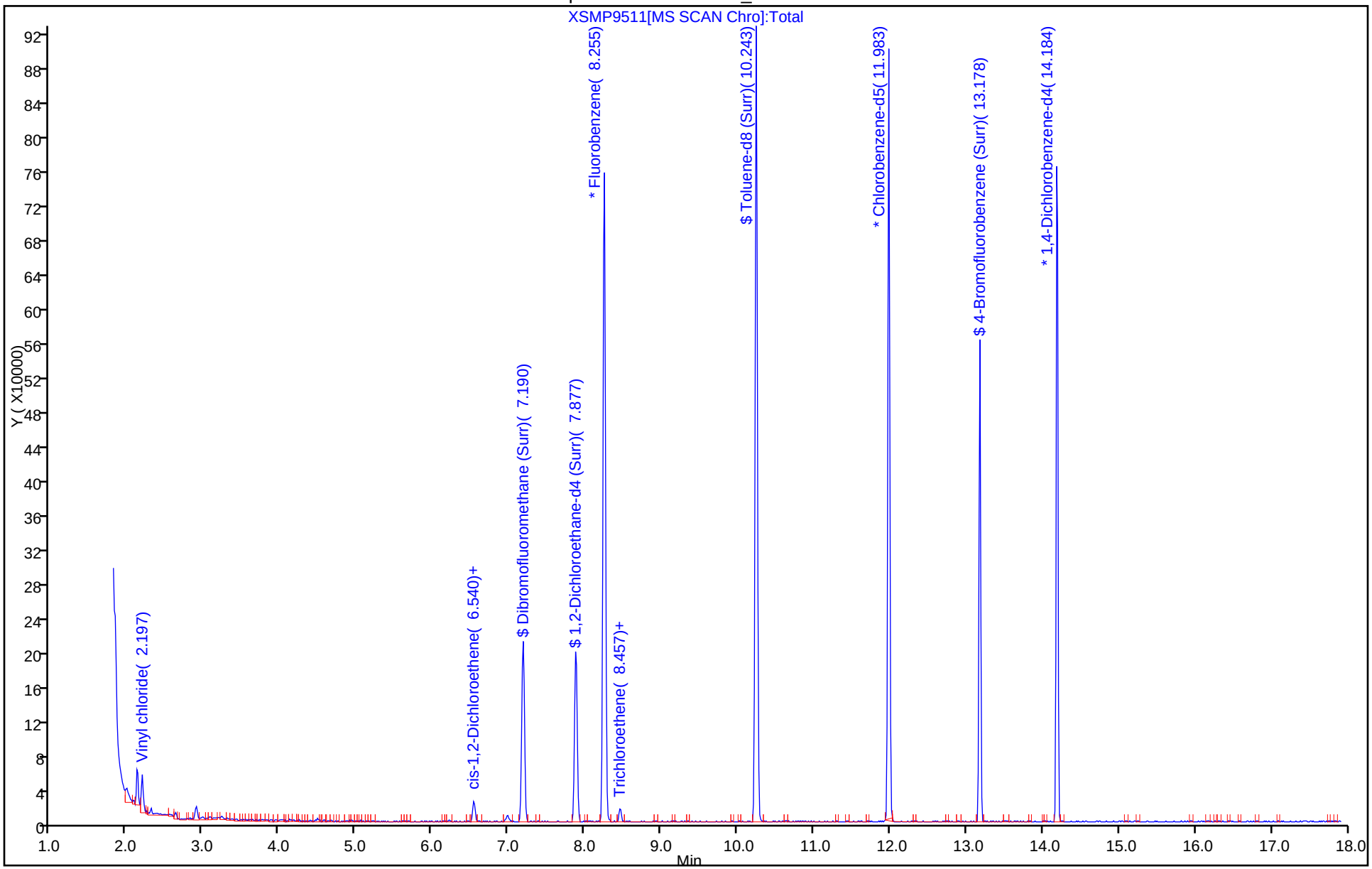
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 31-Oct-2017 16:34:14 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9511.D

Injection Date:	25-Oct-2017 18:26:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-102516-B-5	Lab Sample ID:	160-102516-5	Worklist Smp#:	9
Client ID:	6MW2406				
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\20171025-11764.b\XSMP9511.D
Lims ID: 280-102516-B-5
Client ID: 6MW2406
Sample Type: Client
Inject. Date: 25-Oct-2017 18:26:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-009
Misc. Info.: 280-102516-B-5
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:30:22 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:34:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	51.9	103.89
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	55.7	111.35
$ 62 Toluene-d8 (Surr)	50.0	49.1	98.18
$ 86 4-Bromofluorobenzene (Surr)	50.0	44.9	89.87

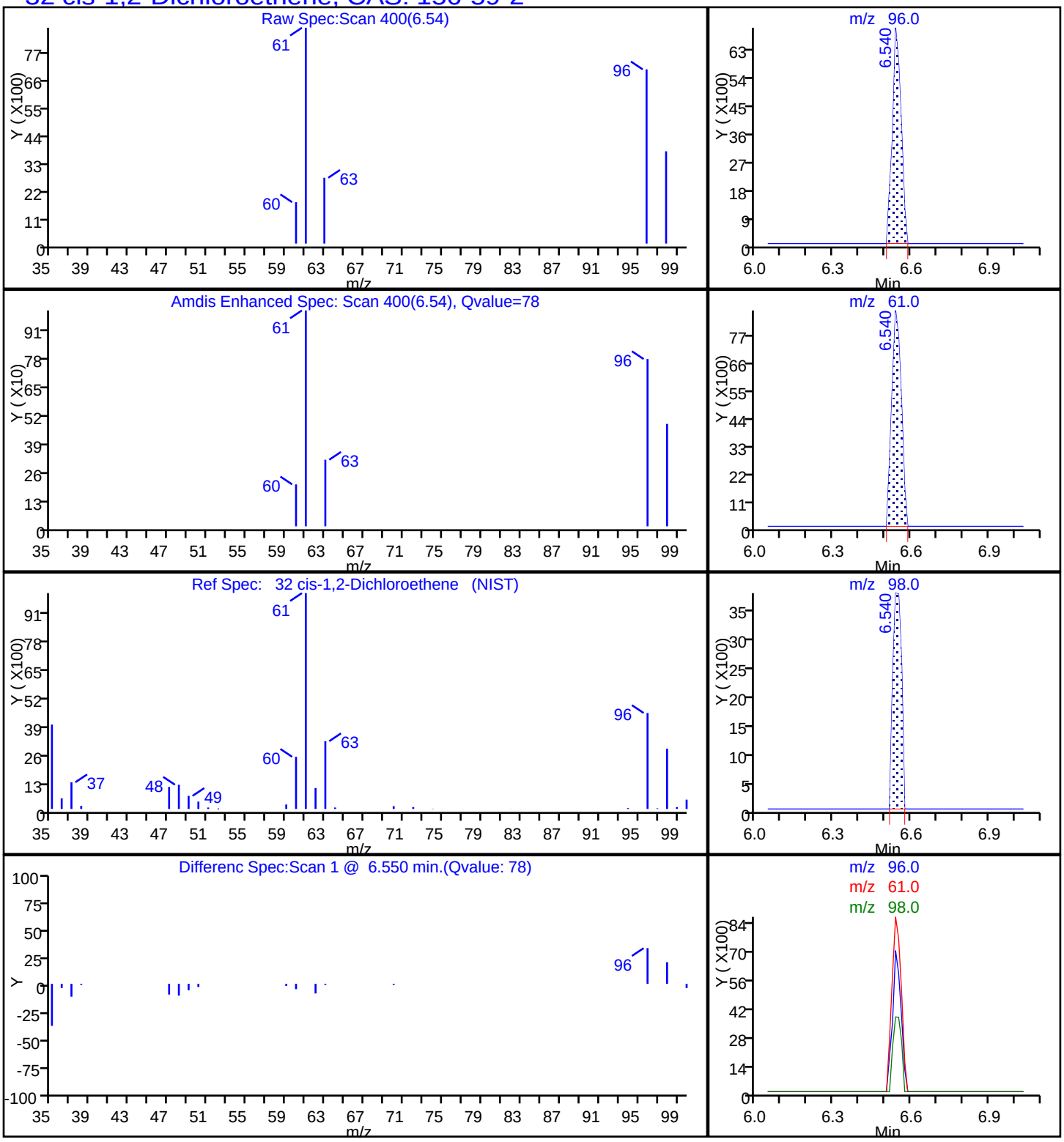
Report Date: 31-Oct-2017 16:34:14 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9511.D

Injection Date:	25-Oct-2017 18:26:30	Instrument ID:	VMSX		
Lims ID:	280-102516-B-5	Lab Sample ID:	160-102516-5		
Client ID:	6MW2406				
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



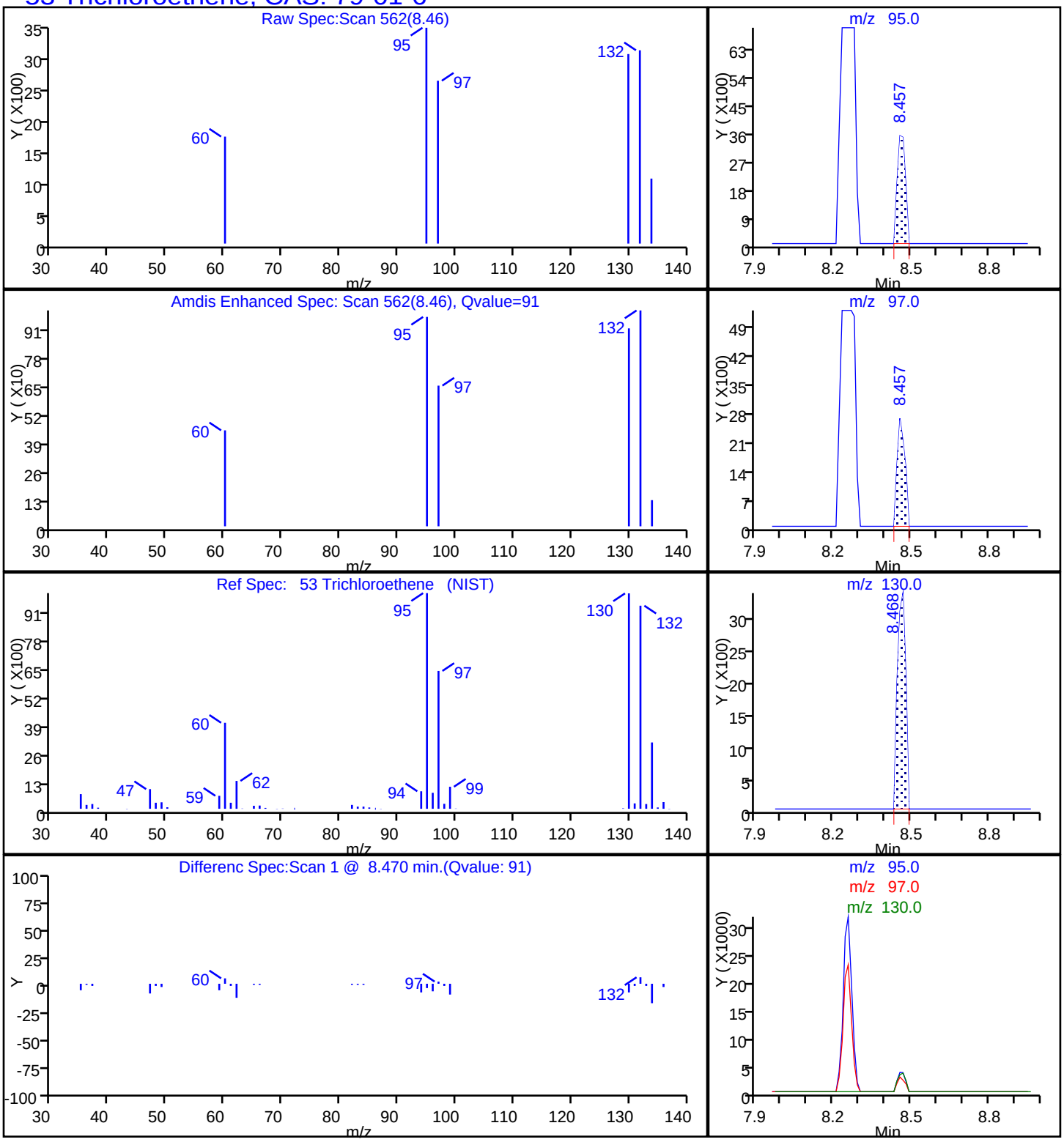
Report Date: 31-Oct-2017 16:34:14 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9511.D

Injection Date:	25-Oct-2017 18:26:30	Instrument ID:	VMSX		
Lims ID:	280-102516-B-5	Lab Sample ID:	160-102516-5		
Client ID:	6MW2406				
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		

53 Trichloroethene, CAS: 79-01-6



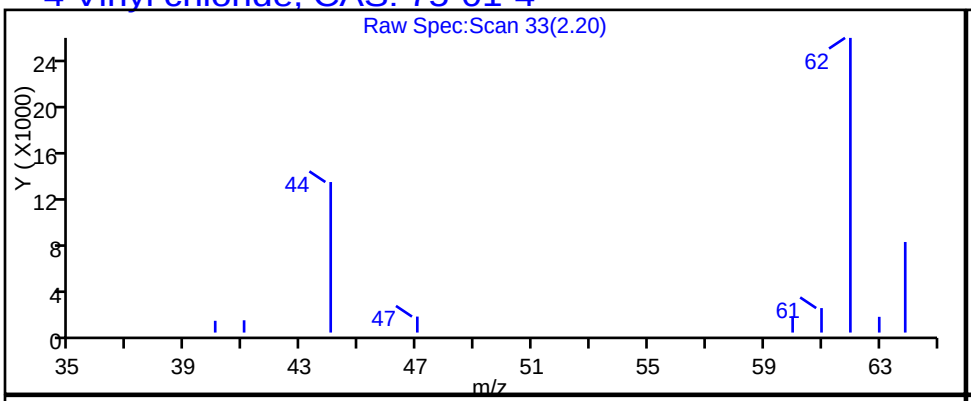
Report Date: 31-Oct-2017 16:34:14 Chrom Revision: 2.2 16-Aug-2017 16:24:46

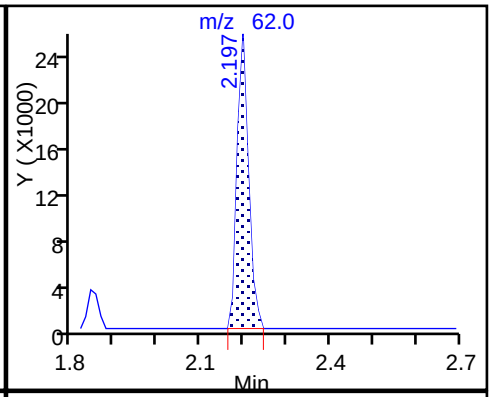
TestAmerica St. Louis

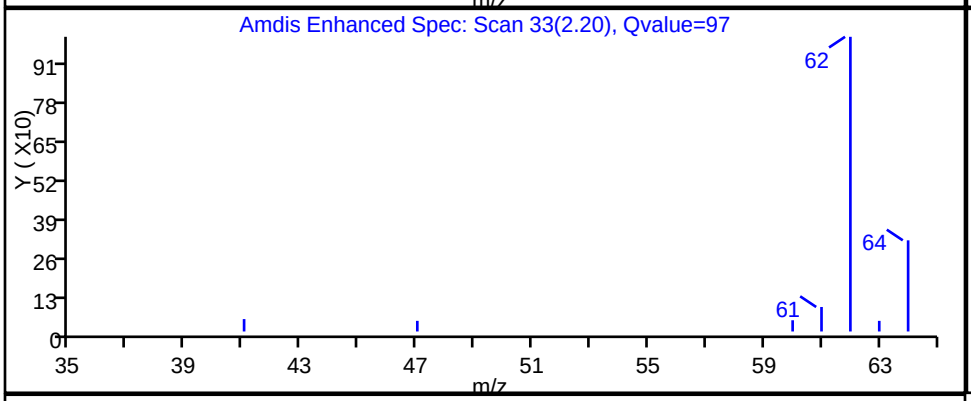
Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9511.D

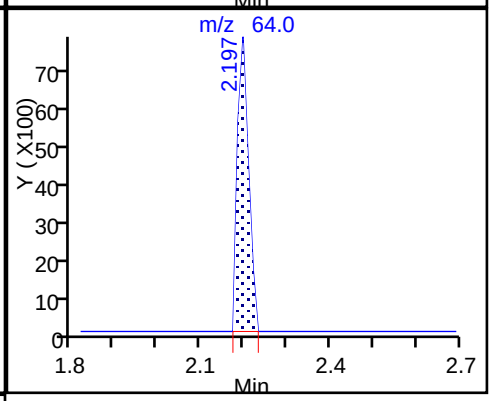
Injection Date:	25-Oct-2017 18:26:30	Instrument ID:	VMSX		
Lims ID:	280-102516-B-5	Lab Sample ID:	160-102516-5		
Client ID:	6MW2406				
Operator ID:	JDH	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

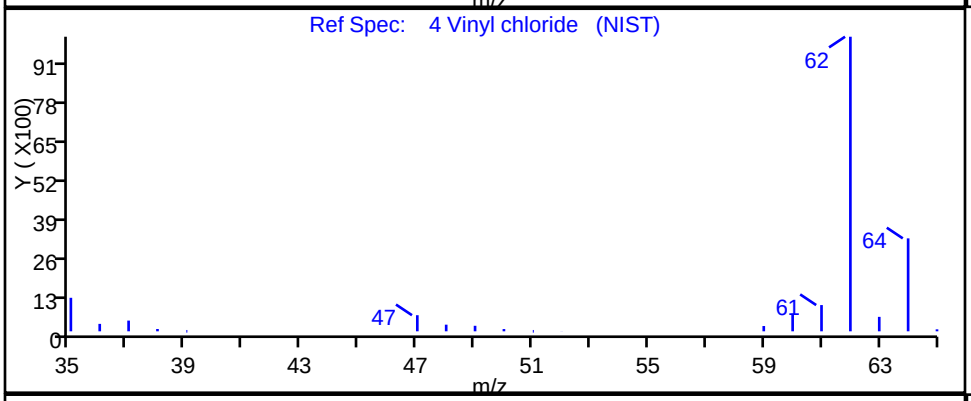
4 Vinyl chloride, CAS: 75-01-4

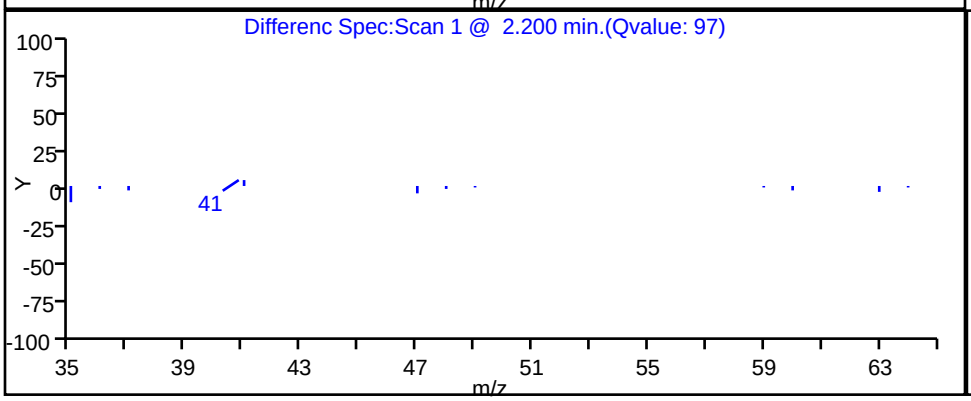


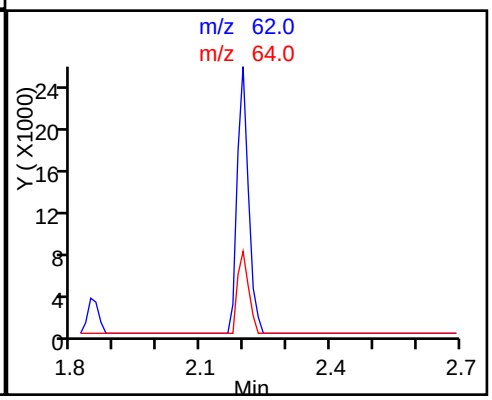












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2506 RA | Lab Sample ID: 280-102516-6 RA

Matrix: Water | Lab File ID: XSMP9514.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 13:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 20:22

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | 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	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.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2506 RA | Lab Sample ID: 280-102516-6 RA

Matrix: Water | Lab File ID: XSMP9514.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 13:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 20:22

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | 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	14		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)	115		81-118
460-00-4	4-Bromofluorobenzene (Surr)	92		85-114
1868-53-7	Dibromofluoromethane (Surr)	108		80-119
2037-26-5	Toluene-d8 (Surr)	103		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9514.D
Lims ID: 280-102516-B-6
Client ID: 6MW2506
Sample Type: Client
Inject. Date: 25-Oct-2017 20:22:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-012
Misc. Info.: 280-102516-B-6
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:30:22 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:31:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62	2.197	2.197	0.000	98	67535	13.7	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
9 1,1-Dichloroethene	96		3.605				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.528				ND	
18 Acetone	43		4.646				ND	
19 trans-1,2-Dichloroethene	96		4.788				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
28 1,1-Dichloroethane	63		5.759				ND	
32 cis-1,2-Dichloroethene	96	6.540	6.551	-0.011	79	11020	2.62	
33 2,2-Dichloropropane	77		6.693				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.096				ND	
$ 41 Dibromofluoromethane (Surr	113	7.179	7.190	-0.011	92	179479	54.1	
40 1,1,1-Trichloroethane	97		7.190				ND	
42 1,1-Dichloropropene	75		7.368				ND	
43 2-Butanone (MEK)	43		7.392				ND	
44 Benzene	78		7.699				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	34	184760	57.4	
49 1,2-Dichloroethane	62		7.971				ND	
* 51 Fluorobenzene	96	8.244	8.255	-0.011	99	824563	50.0	
53 Trichloroethene	95		8.468				ND	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.131				ND	
57 Dichlorobromomethane	83		9.226				ND	
61 cis-1,3-Dichloropropene	75		10.019				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	743396	51.6	
63 Toluene	92		10.303				ND	
65 Tetrachloroethene	164		10.764				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.799				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.438				ND	
74 2-Hexanone	43		11.722				ND	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	499601	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	85	204941	46.2	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.497				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.770				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.054				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	98	206397	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.260				ND	
110 Naphthalene	128		16.112				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

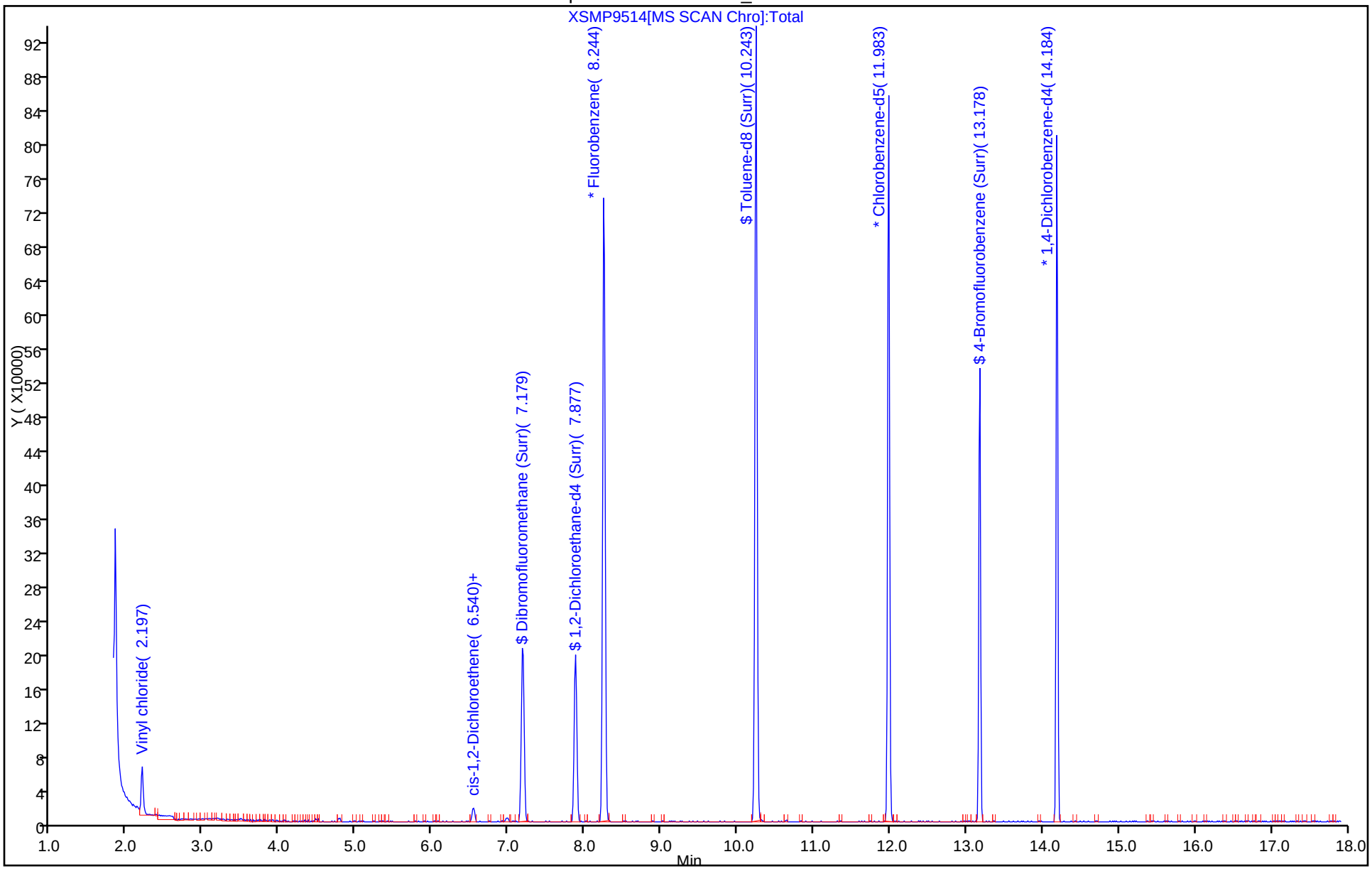
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 31-Oct-2017 16:31:19 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9514.D

Injection Date:	25-Oct-2017 20:22:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-102516-B-6	Lab Sample ID:	160-102516-6	Worklist Smp#:	12
Client ID:	6MW2506				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9514.D
Lims ID: 280-102516-B-6
Client ID: 6MW2506
Sample Type: Client
Inject. Date: 25-Oct-2017 20:22:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-012
Misc. Info.: 280-102516-B-6
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:30:22 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:31:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	54.1	108.15
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	57.4	114.78
$ 62 Toluene-d8 (Surr)	50.0	51.6	103.14
$ 86 4-Bromofluorobenzene (Surr)	50.0	46.2	92.50

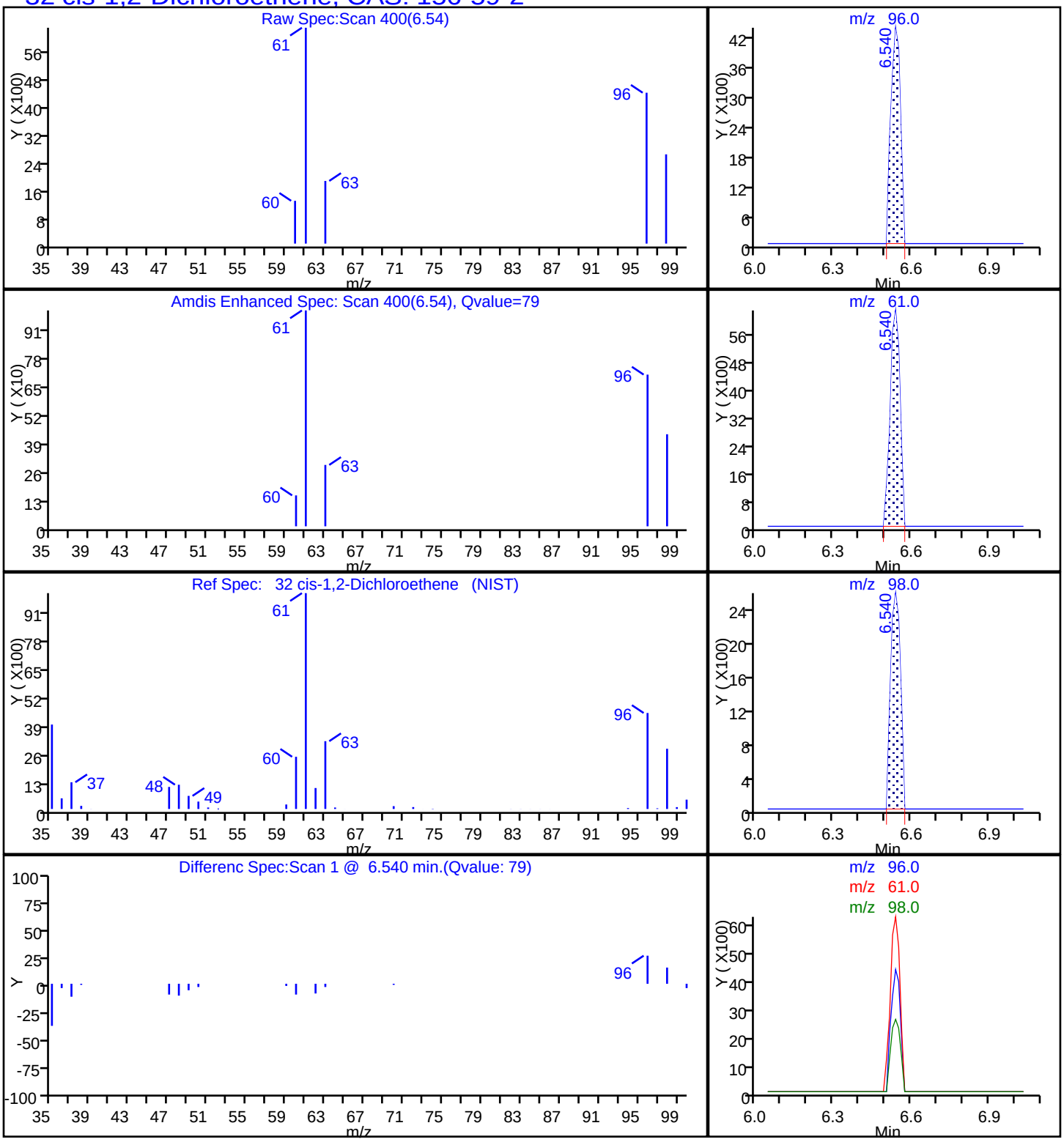
Report Date: 31-Oct-2017 16:31:19 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9514.D

Injection Date:	25-Oct-2017 20:22:30	Instrument ID:	VMSX		
Lims ID:	280-102516-B-6	Lab Sample ID:	160-102516-6		
Client ID:	6MW2506				
Operator ID:	JDH	ALS Bottle#:	11	Worklist Smp#:	12
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



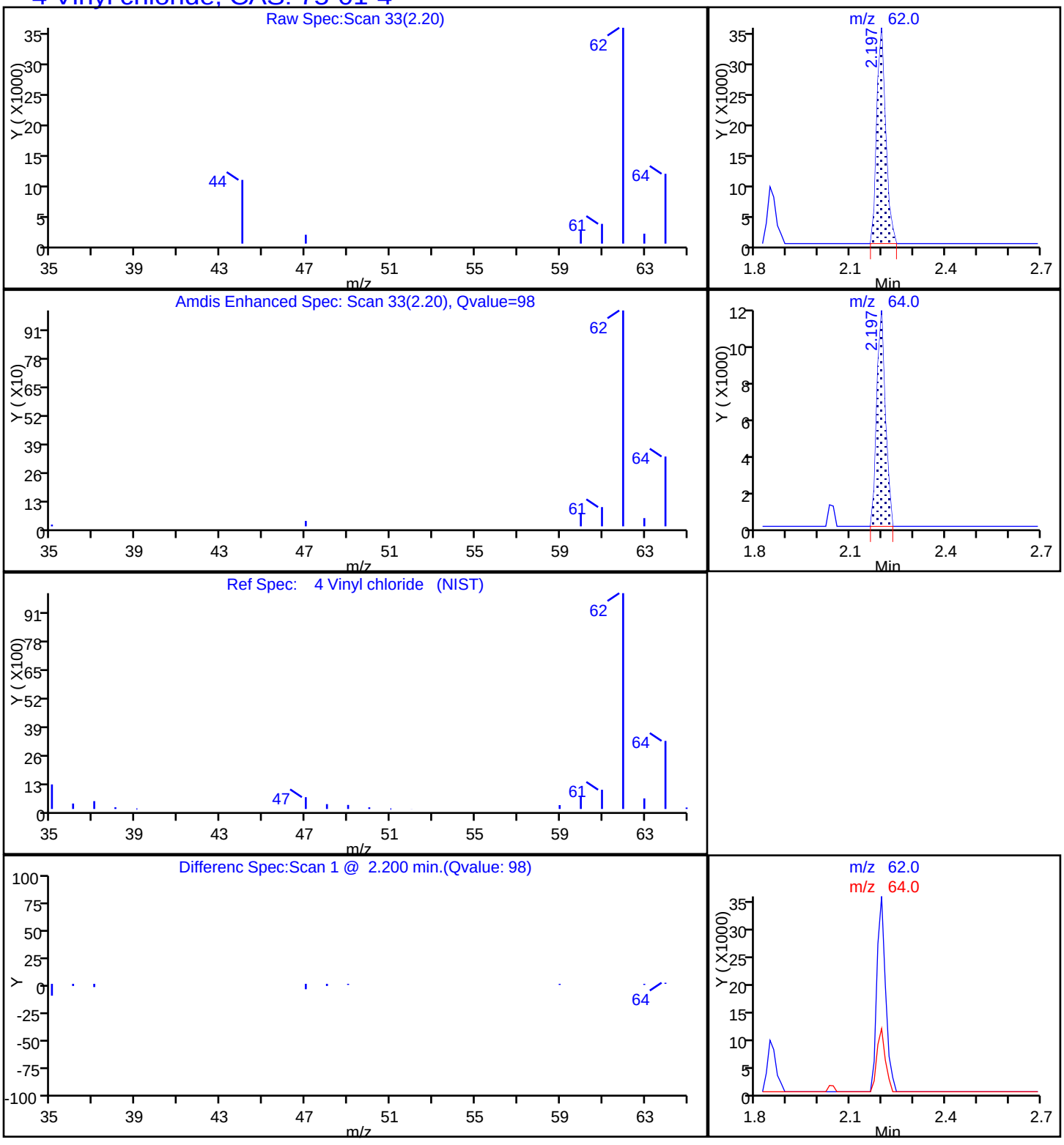
Report Date: 31-Oct-2017 16:31:19 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9514.D

Injection Date:	25-Oct-2017 20:22:30	Instrument ID:	VMSX		
Lims ID:	280-102516-B-6	Lab Sample ID:	160-102516-6		
Client ID:	6MW2506				
Operator ID:	JDH	ALS Bottle#:	11	Worklist Smp#:	12
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.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2606 | Lab Sample ID: 280-102516-7

Matrix: Water | Lab File ID: XSMP9513.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 19:30

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | 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	2.3	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2606 | Lab Sample ID: 280-102516-7

Matrix: Water | Lab File ID: XSMP9513.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 19:30

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | 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	2.6	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)	114		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)	101		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9513.D
Lims ID: 280-102516-B-7
Client ID: 6MW2606
Sample Type: Client
Inject. Date: 25-Oct-2017 19:30:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-011
Misc. Info.: 280-102516-B-7
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:30:22 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:32:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.031				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62	2.197	2.197	0.000	95	13240	2.65	
121 Butadiene	39		2.209				ND	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
122 Dichlorofluoromethane	67		3.013				ND	
8 Ethyl ether	74		3.345				ND	
9 1,1-Dichloroethene	96		3.605				ND	
11 Ethanol	45		3.605				ND	
10 Carbon disulfide	76		3.605				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		3.712				ND	
13 Iodomethane	142		3.794				ND	
14 Acrolein	56		4.138				ND	
15 3-Chloro-1-propene	39		4.351				ND	
16 Isopropyl alcohol	45	4.504	4.493	0.011	21	2955	54.0	
17 Methylene Chloride	84		4.528				ND	
18 Acetone	43		4.646				ND	
19 trans-1,2-Dichloroethene	96		4.788				ND	
20 Methyl acetate	74		4.871				ND	
21 Hexane	86		4.942				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
23 2-Methyl-2-propanol	59		5.226				ND	
24 Acetonitrile	41		5.380				ND	
25 Isopropyl ether	45		5.640				ND	
27 2-Chloro-1,3-butadiene	53		5.723				ND	
28 1,1-Dichloroethane	63		5.759				ND	
S 26 1,2-Dichloroethene, Total	96				0		2.32	
29 Acrylonitrile	53		5.853				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		6.173				ND	
31 Vinyl acetate	43		6.196				ND	
32 cis-1,2-Dichloroethene	96	6.540	6.551	-0.011	78	9888	2.32	
33 2,2-Dichloropropane	77		6.693				ND	
34 Cyclohexane	84		6.800				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.096				ND	
38 Tetrahydrofuran	71		7.155				ND	
39 Ethyl acetate	45		7.167				ND	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.190	0.000	92	183362	54.4	
40 1,1,1-Trichloroethane	97		7.190				ND	
42 1,1-Dichloropropene	75		7.368				ND	
43 2-Butanone (MEK)	43		7.392				ND	
124 Isooctane	57		7.534				ND	
117 n-Heptane	43		7.687				ND	
44 Benzene	78		7.699				ND	
45 Propionitrile	54		7.770				ND	
46 Methacrylonitrile	41		7.794				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	34	186280	57.0	
48 Tert-amyl methyl ether	73		7.900				ND	
49 1,2-Dichloroethane	62		7.971				ND	
50 Isobutyl alcohol	42		8.090				ND	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	837525	50.0	
125 1,4-Difluorobenzene	114		8.427				ND	
52 Methylcyclohexane	55		8.433				ND	
53 Trichloroethene	95		8.468				ND	
A 126 C6-C12	1	8.921	(3.966-13.876)		0	282501	NC	
54 n-Butanol	56		8.977				ND	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.131				ND	
123 Ethyl acrylate	55		9.214				ND	
57 Dichlorobromomethane	83		9.226				ND	
58 Methyl methacrylate	69		9.462				ND	
59 1,4-Dioxane	88		9.486				ND	
128 2-Pentanone	43		9.634				ND	
60 2-Chloroethyl vinyl ether	63		9.971				ND	
61 cis-1,3-Dichloropropene	75		10.019				ND	
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	731551	50.3	
63 Toluene	92		10.303				ND	
64 2-Nitropropane	43		10.610				ND	
65 Tetrachloroethene	164		10.764				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.799				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
69 Ethyl methacrylate	69		11.036				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.438				ND	
S 73 1,3-Dichloropropene, Total	75		11.620				ND	
118 n-Butyl acetate	43		11.628				ND	
74 2-Hexanone	43		11.722				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	503785	50.0	
75 1-Chlorohexane	91		11.995				ND	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	207728	45.0	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.497				ND	
93 trans-1,4-Dichloro-2-buten	53		13.533				ND	
94 Cyclohexanone	55		13.533				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.770				ND	
81 Pentachloroethane	167		13.776				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.054				ND	
100 1,3-Dichlorobenzene	146		14.125				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	214882	50.0	
102 1,4-Dichlorobenzene	146		14.207				ND	
119 1,2,3-Trimethylbenzene	105		14.219				ND	
120 Benzyl chloride	126		14.420				ND	
103 n-Butylbenzene	134		14.432				ND	
104 1,2-Dichlorobenzene	146		14.574				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.260				ND	
106 n-Nonyl Aldehyde	57		15.284				ND	
107 1,3,5-Trichlorobenzene	180		15.284				ND	
108 Hexachlorobutadiene	225		15.805				ND	
109 1,2,4-Trichlorobenzene	180		15.828				ND	
110 Naphthalene	128		16.112				ND	
111 1,2,3-Trichlorobenzene	180		16.266				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:

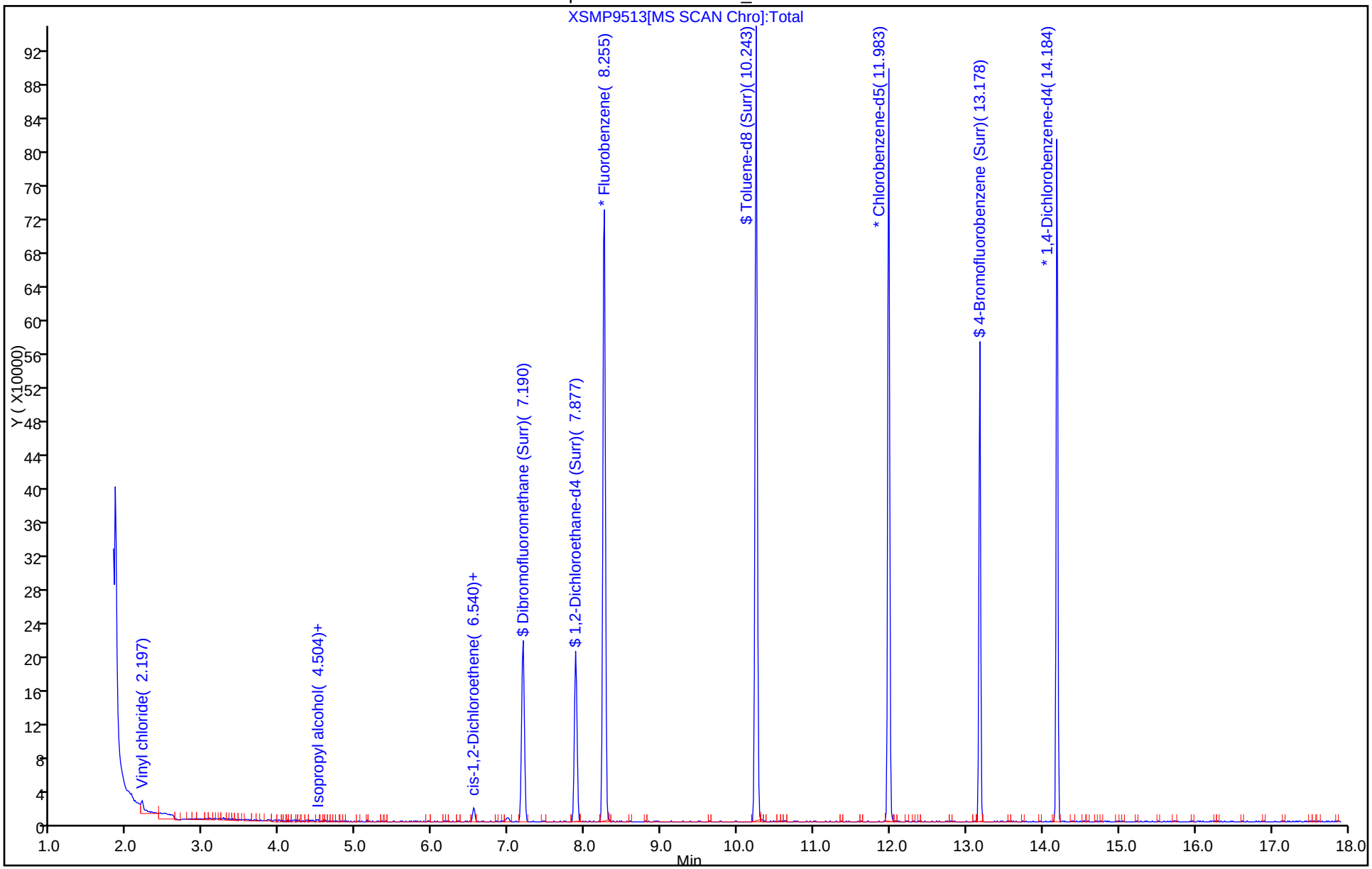
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 31-Oct-2017 16:32:24 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9513.D

Injection Date:	25-Oct-2017 19:30:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-102516-B-7	Lab Sample ID:	160-102516-7	Worklist Smp#:	11
Client ID:	6MW2606				
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\20171025-11764.b\XSMP9513.D
Lims ID: 280-102516-B-7
Client ID: 6MW2606
Sample Type: Client
Inject. Date: 25-Oct-2017 19:30:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-011
Misc. Info.: 280-102516-B-7
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:30:22 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:32:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	54.4	108.78
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	57.0	113.94
$ 62 Toluene-d8 (Surr)	50.0	50.3	100.66
$ 86 4-Bromofluorobenzene (Surr)	50.0	45.0	90.05

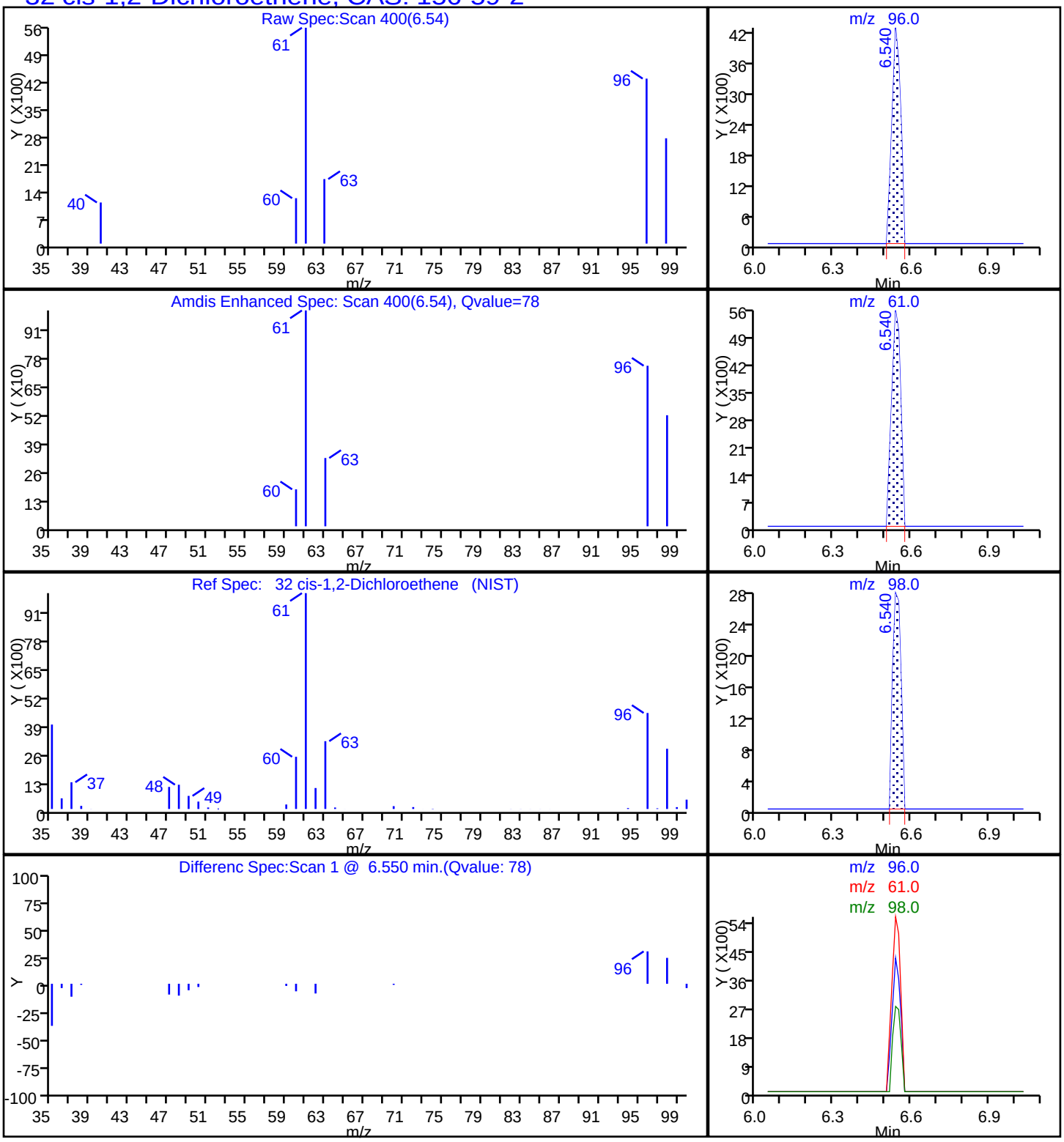
Report Date: 31-Oct-2017 16:32:24 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9513.D

Injection Date:	25-Oct-2017 19:30:30	Instrument ID:	VMSX		
Lims ID:	280-102516-B-7	Lab Sample ID:	160-102516-7		
Client ID:	6MW2606				
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



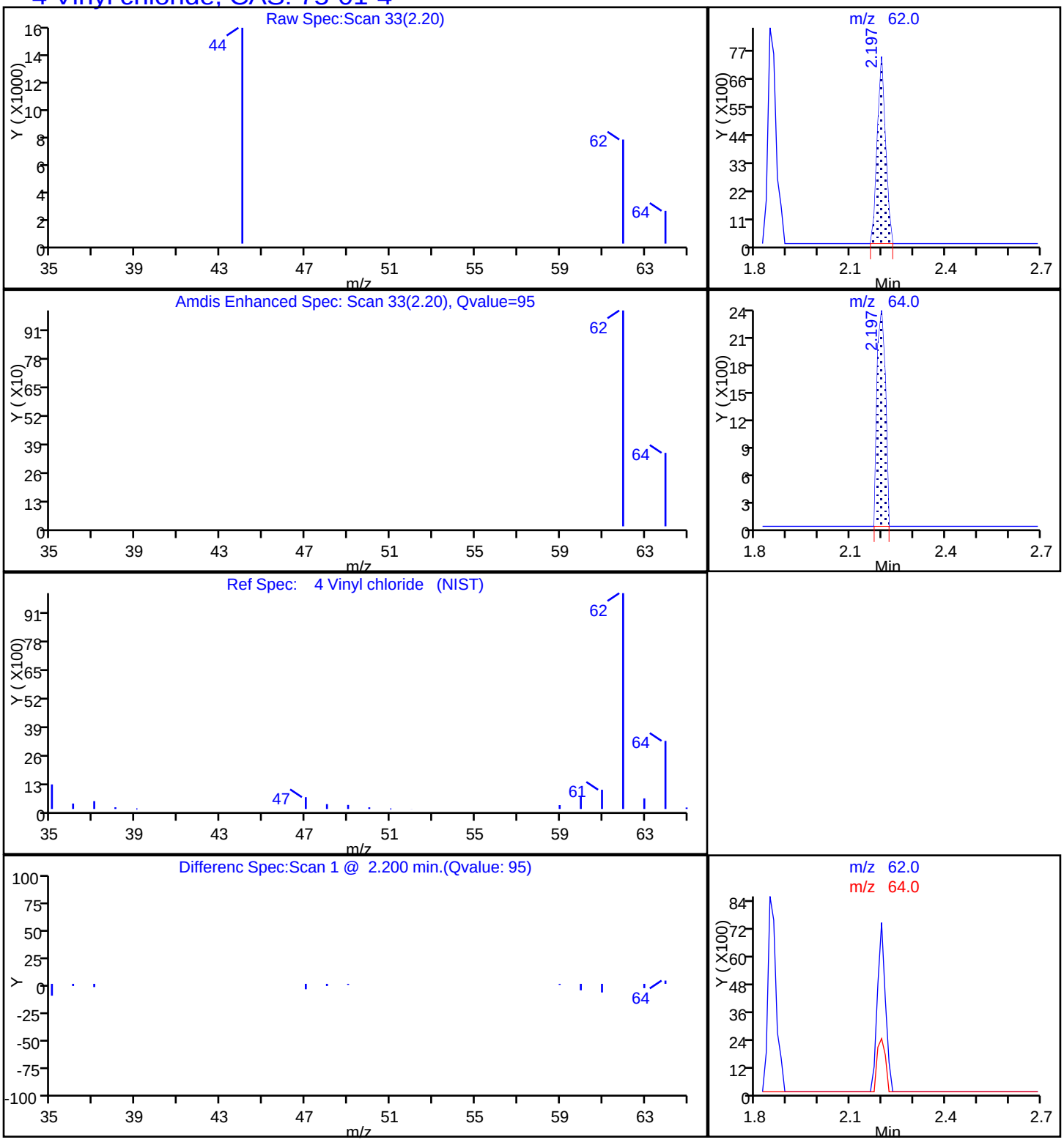
Report Date: 31-Oct-2017 16:32:24 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9513.D

Injection Date:	25-Oct-2017 19:30:30	Instrument ID:	VMSX		
Lims ID:	280-102516-B-7	Lab Sample ID:	160-102516-7		
Client ID:	6MW2606				
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		

4 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: TB07 | Lab Sample ID: 280-102516-8

Matrix: Water | Lab File ID: XSMP9473.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 22:06

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | 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.: 280-102516-1

SDG No.:

Client Sample ID: TB07 | Lab Sample ID: 280-102516-8

Matrix: Water | Lab File ID: XSMP9473.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 22:06

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | 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	1.1	J	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)	100		81-118
460-00-4	4-Bromofluorobenzene (Surr)	93		85-114
1868-53-7	Dibromofluoromethane (Surr)	99		80-119
2037-26-5	Toluene-d8 (Surr)	97		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9473.D
Lims ID: 280-102516-A-8
Client ID: TB07
Sample Type: Client
Inject. Date: 24-Oct-2017 22:06:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-008
Misc. Info.: 280-102516-A-8
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:45:10 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:46:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62		2.197				ND	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
9 1,1-Dichloroethene	96		3.593				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.635				ND	
19 trans-1,2-Dichloroethene	96		4.788				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
28 1,1-Dichloroethane	63		5.759				ND	
32 cis-1,2-Dichloroethene	96		6.540				ND	
33 2,2-Dichloropropane	77		6.693				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.096				ND	
40 1,1,1-Trichloroethane	97		7.190				ND	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.190	0.001	92	203556	49.6	
42 1,1-Dichloropropene	75		7.368				ND	
43 2-Butanone (MEK)	43		7.392				ND	
44 Benzene	78		7.687				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	34	199555	50.2	
49 1,2-Dichloroethane	62		7.971				ND	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	1019037	50.0	
53 Trichloroethene	95		8.457				ND	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.131				ND	
57 Dichlorobromomethane	83		9.214				ND	
61 cis-1,3-Dichloropropene	75		10.019				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.244	10.243	0.001	94	844228	48.3	
63 Toluene	92	10.303	10.303	0.000	96	7974	1.10	
65 Tetrachloroethene	164		10.764				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.800				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.438				ND	
74 2-Hexanone	43		11.722				ND	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	606384	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	85	245022	46.5	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.497				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.770				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.054				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.184	0.012	97	245179	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.261				ND	
110 Naphthalene	128		16.112				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

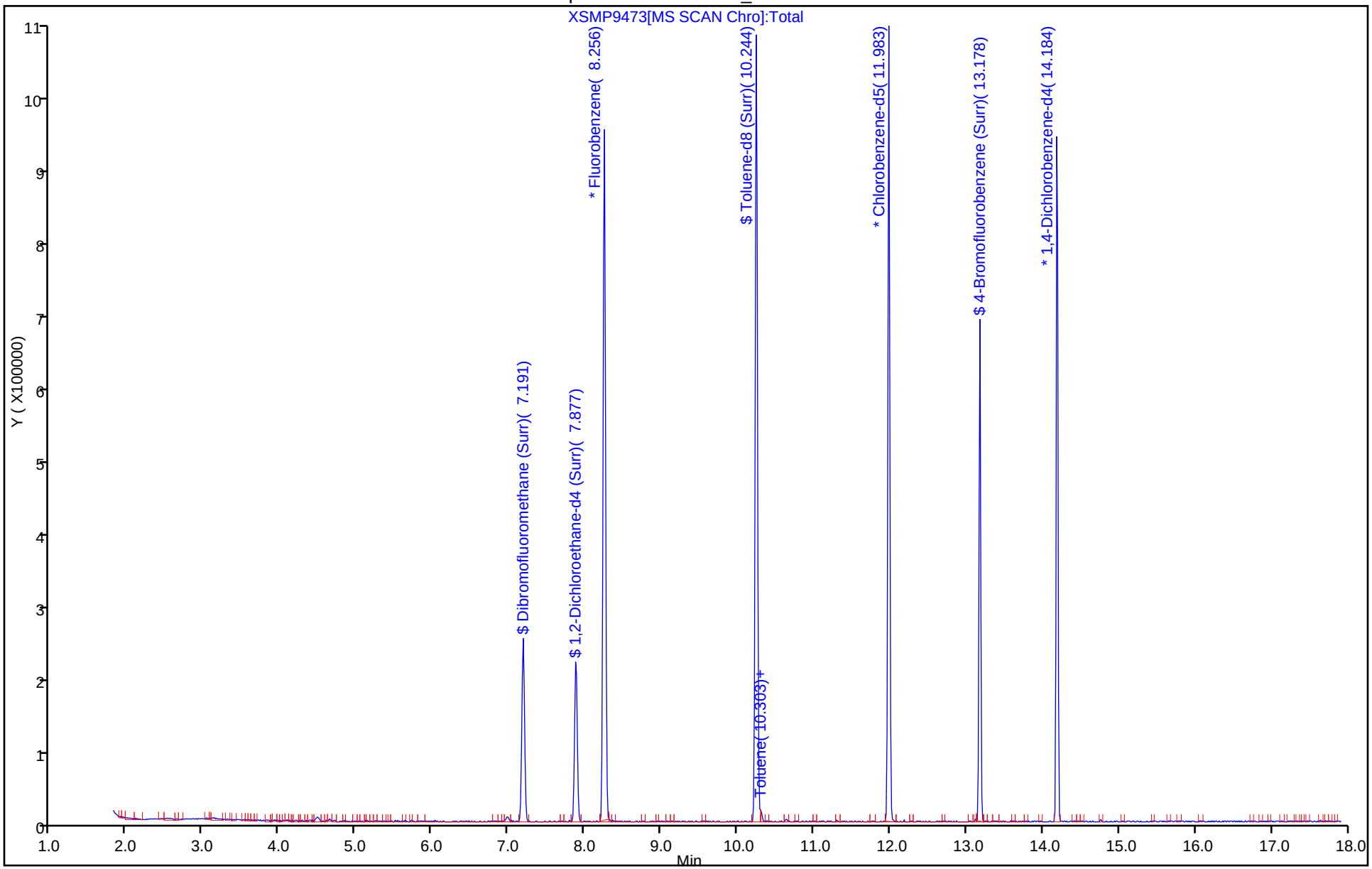
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8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 25-Oct-2017 21:46:55 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9473.D

Injection Date:	24-Oct-2017 22:06:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-102516-A-8	Lab Sample ID:	160-102516-8	Worklist Smp#:	8
Client ID:	TB07				
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\20171024-11757.b\XSMP9473.D
Lims ID: 280-102516-A-8
Client ID: TB07
Sample Type: Client
Inject. Date: 24-Oct-2017 22:06:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-008
Misc. Info.: 280-102516-A-8
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:45:10 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:46:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.6	99.25
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.2	100.32
$ 62 Toluene-d8 (Surr)	50.0	48.3	96.51
$ 86 4-Bromofluorobenzene (Surr)	50.0	46.5	93.09

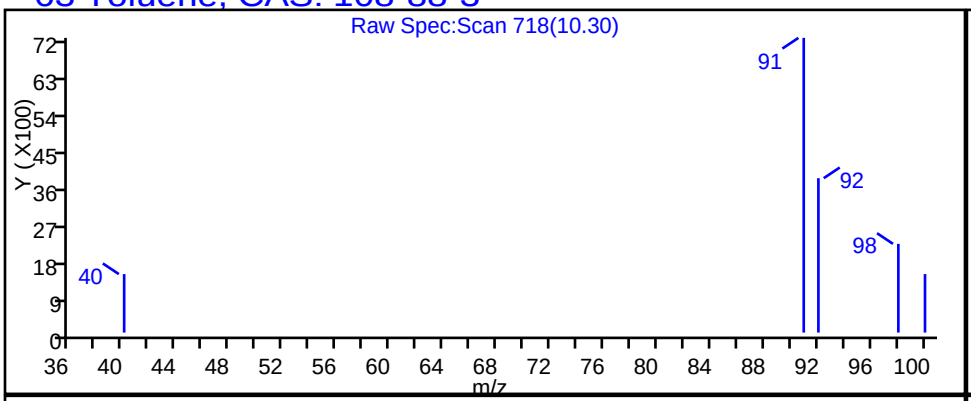
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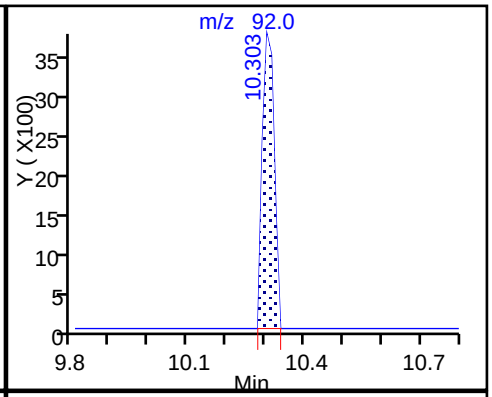
TestAmerica St. Louis

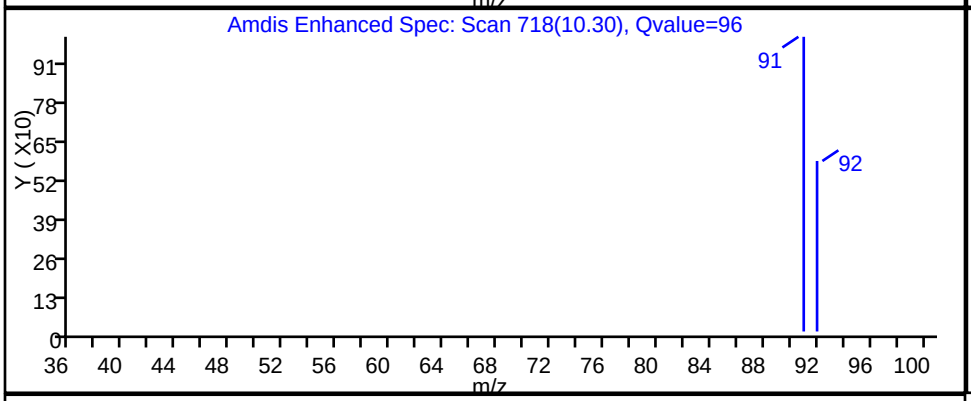
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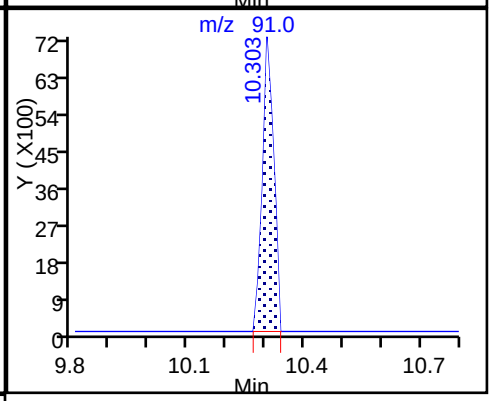
Injection Date:	24-Oct-2017 22:06:30	Instrument ID:	VMSX		
Lims ID:	280-102516-A-8	Lab Sample ID:	160-102516-8		
Client ID:	TB07				
Operator ID:	JDH	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

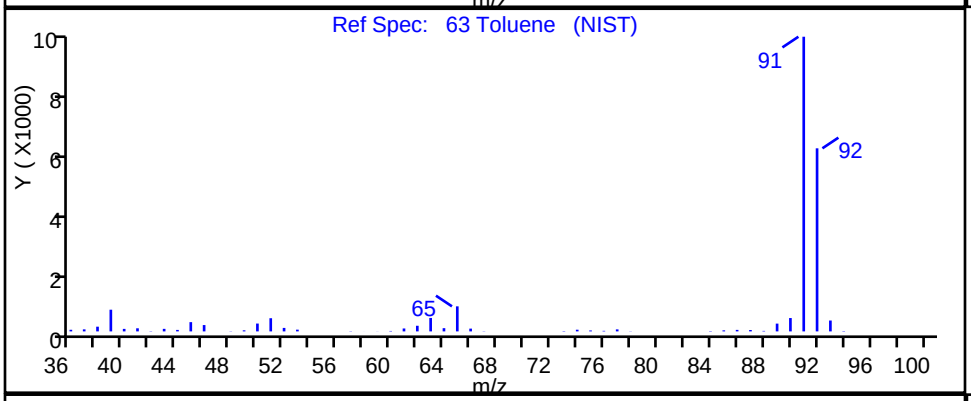
63 Toluene, CAS: 108-88-3

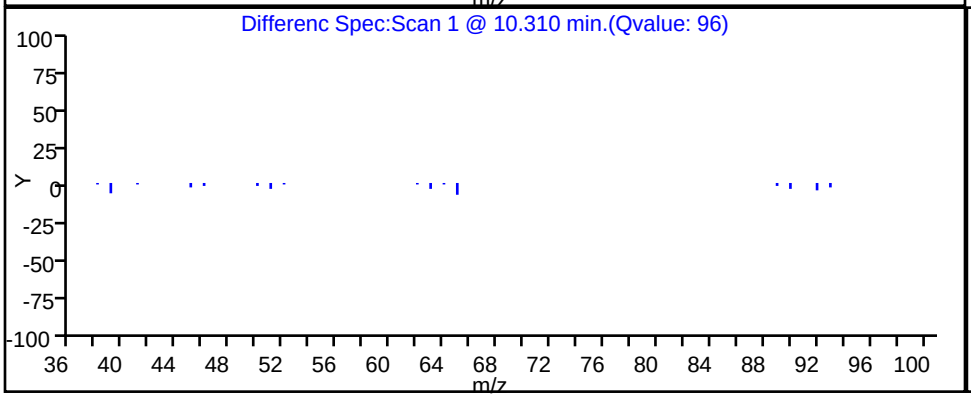


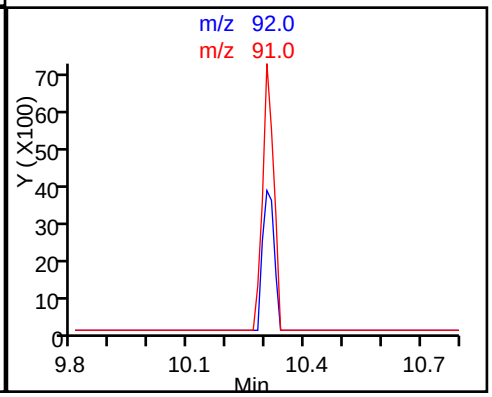












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: FB03 | Lab Sample ID: 280-102516-9

Matrix: Water | Lab File ID: XSMP9474.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 14:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 22:30

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | 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.: 280-102516-1

SDG No.:

Client Sample ID: FB03 | Lab Sample ID: 280-102516-9

Matrix: Water | Lab File ID: XSMP9474.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 14:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 22:30

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | 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	1.1	J	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)	111		81-118
460-00-4	4-Bromofluorobenzene (Surr)	97		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\20171024-11757.b\XSMP9474.D
Lims ID: 280-102516-A-9
Client ID: FB03
Sample Type: Client
Inject. Date: 24-Oct-2017 22:30:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-009
Misc. Info.: 280-102516-A-9
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:45:10 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:47:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62		2.197				ND	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.919				ND	
9 1,1-Dichloroethene	96		3.593				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.635				ND	
19 trans-1,2-Dichloroethene	96		4.788				ND	
22 Methyl tert-butyl ether	73		5.013				ND	
28 1,1-Dichloroethane	63		5.759				ND	
32 cis-1,2-Dichloroethene	96		6.540				ND	
33 2,2-Dichloropropane	77		6.693				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.096				ND	
40 1,1,1-Trichloroethane	97		7.190				ND	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.190	0.001	92	201910	52.2	
42 1,1-Dichloropropene	75		7.368				ND	
43 2-Butanone (MEK)	43		7.392				ND	
44 Benzene	78		7.687				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	34	207717	55.4	
49 1,2-Dichloroethane	62		7.971				ND	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	960149	50.0	
53 Trichloroethene	95		8.457				ND	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.131				ND	
57 Dichlorobromomethane	83		9.214				ND	
61 cis-1,3-Dichloropropene	75		10.019				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	842499	50.3	
63 Toluene	92	10.303	10.303	0.000	97	7221	1.07	
65 Tetrachloroethene	164		10.764				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.800				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.438				ND	
74 2-Hexanone	43		11.722				ND	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	580363	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.042				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.610				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.681				ND	
85 Isopropylbenzene	105		12.918				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	85	242980	48.3	
87 Bromobenzene	156		13.273				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.486				ND	
92 1,2,3-Trichloropropane	110		13.497				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.770				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.054				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.184	0.012	97	234129	50.0	
103 n-Butylbenzene	134		14.432				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.261				ND	
110 Naphthalene	128		16.112				ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

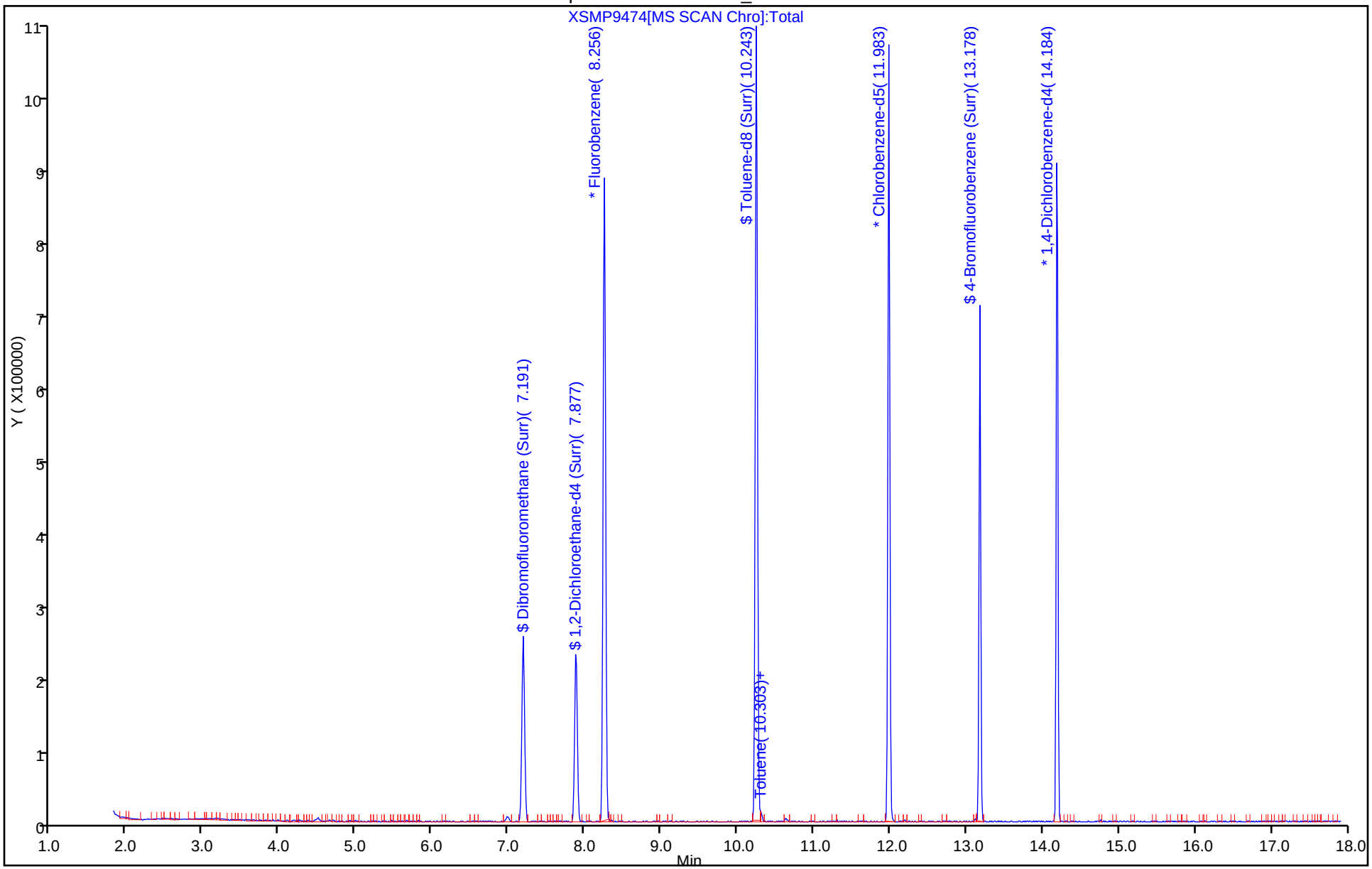
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8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 25-Oct-2017 21:47:32 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9474.D

Injection Date:	24-Oct-2017 22:30:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-102516-A-9	Lab Sample ID:	160-102516-9	Worklist Smp#:	9
Client ID:	FB03				
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\20171024-11757.b\XSMP9474.D
Lims ID: 280-102516-A-9
Client ID: FB03
Sample Type: Client
Inject. Date: 24-Oct-2017 22:30:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-009
Misc. Info.: 280-102516-A-9
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:45:10 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:47:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	52.2	104.48
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	55.4	110.82
$ 62 Toluene-d8 (Surr)	50.0	50.3	100.63
$ 86 4-Bromofluorobenzene (Surr)	50.0	48.3	96.67

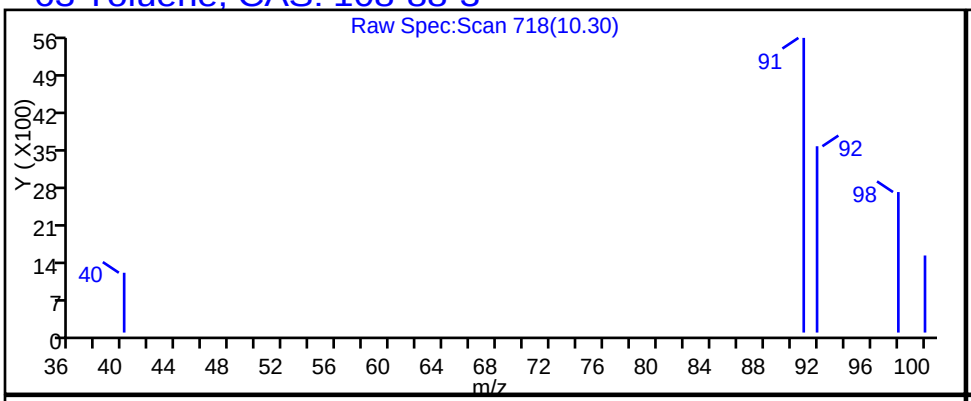
Report Date: 25-Oct-2017 21:47:32 Chrom Revision: 2.2 16-Aug-2017 16:24:46

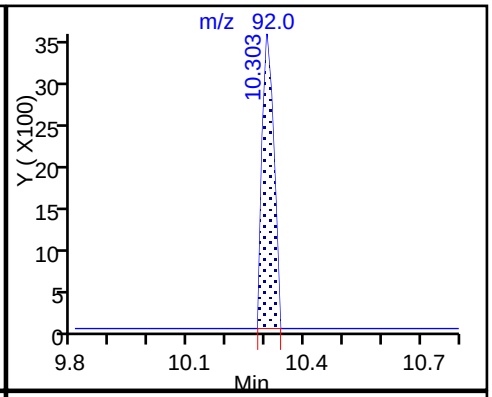
TestAmerica St. Louis

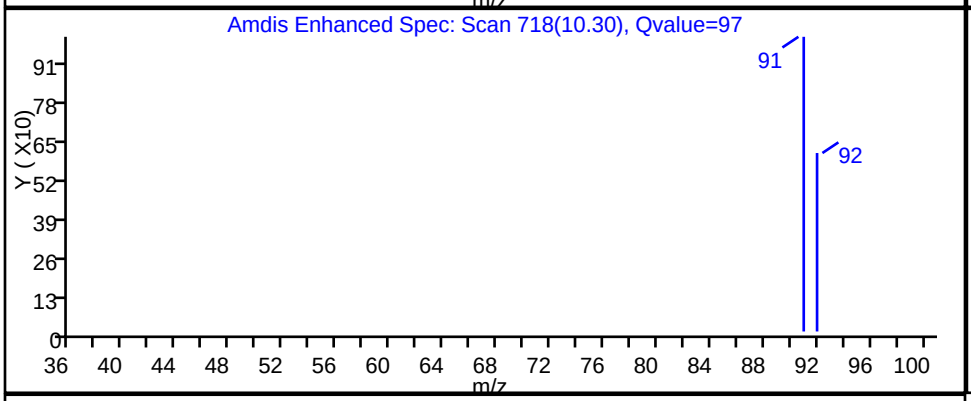
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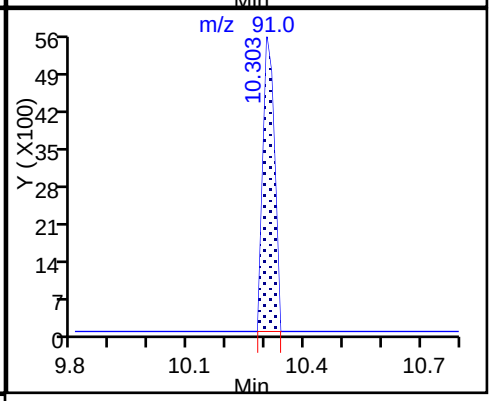
Injection Date:	24-Oct-2017 22:30:30	Instrument ID:	VMSX		
Lims ID:	280-102516-A-9	Lab Sample ID:	160-102516-9		
Client ID:	FB03				
Operator ID:	JDH	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

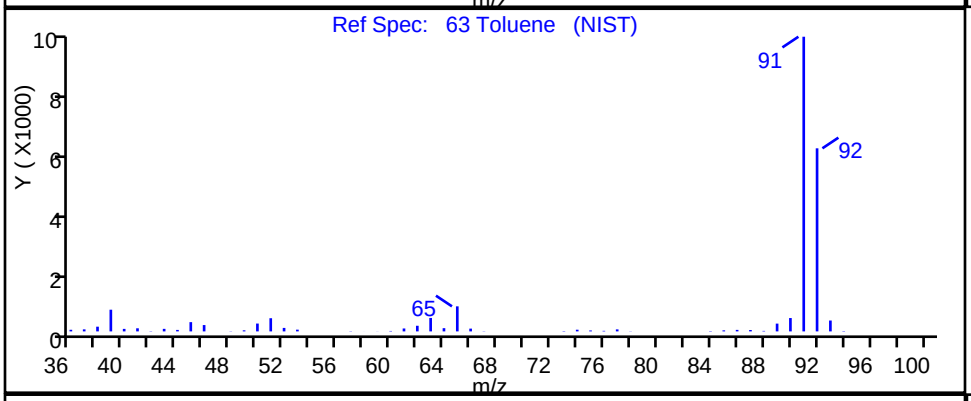
63 Toluene, CAS: 108-88-3

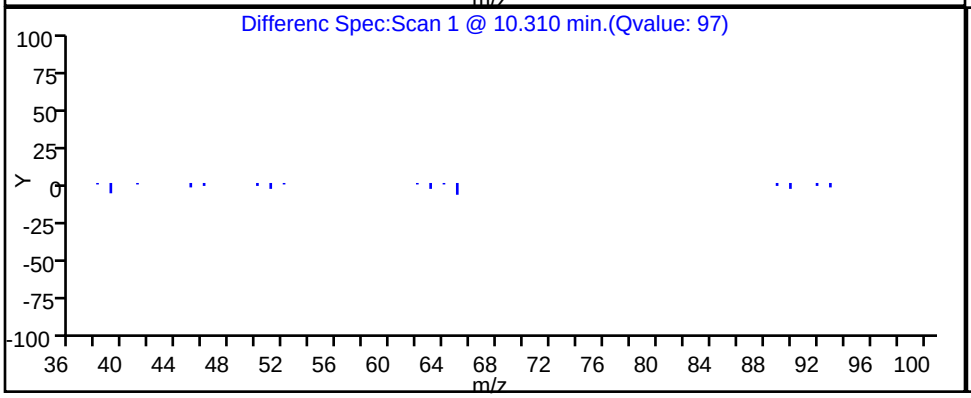


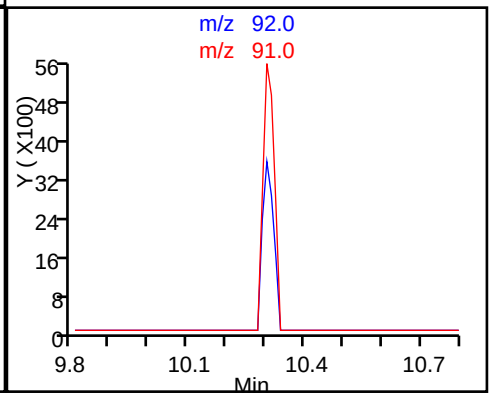












FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-327349/3	XICL8774.D
Level 2	IC 160-327349/4	XICL8775.D
Level 3	IC 160-327349/5	XICL8776.D
Level 4	IC 160-327349/6	XICL8777.D
Level 5	IC 160-327349/7	XICL8778.D
Level 6	ICIS 160-327349/8	XICL8779.D
Level 7	IC 160-327349/9	XICL8780.D
Level 8	IC 160-327349/10	XICL8781.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	+++++ 0.3004	+++++ 0.2798	0.3049 0.2773	0.3091	0.2944	Ave		0.2943			0.1000	4.5		15.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 0.1260	+++++ 0.1611	0.1265 0.1529	0.1224	0.1226	Ave		0.1353			0.0100	12.7		15.0			
Chloromethane	+++++ 0.3808	+++++ 0.3576	0.4012 0.3506	0.4087	0.3804	Ave		0.3799			0.1000	6.1		15.0			
Vinyl chloride	0.3270 0.2933	0.2943 0.2784	0.3231 0.2605	0.3088	0.3039	Ave		0.2987			0.1000	7.4		15.0			
Butadiene	+++++ 0.2564	+++++ 0.2178	0.2884 0.2053	0.2651	0.2632	Ave		0.2494			0.0100	12.6		15.0			
Bromomethane	+++++ 0.1082	+++++ 0.1052	0.1376 0.1024	0.1113	0.1228	Ave		0.1146			0.1000	11.6		15.0			
Chloroethane	+++++ 0.1023	+++++ 0.0916	0.1260 0.1056	0.1180	0.1161	Ave		0.1099			0.1000	11.3		15.0			
Trichlorofluoromethane	+++++ 0.3065	+++++ 0.2848	0.3407 0.2858	0.3096	0.3153	Ave		0.3071			0.1000	6.8		15.0			
Dichlorofluoromethane	+++++ 0.2800	+++++ 0.2840	0.3168 0.2747	0.2890	0.2815	Ave		0.2877			0.0100	5.2		15.0			
Ethyl ether	+++++ 0.1161	+++++ 0.1197	0.1153 0.1197	0.1104	0.1130	Ave		0.1157			0.0100	3.2		15.0			
1,1-Dichloroethene	+++++ 0.2595	+++++ 0.2642	0.2624 0.2512	0.2514	0.2511	Ave		0.2566			0.1000	2.4		15.0			
Ethanol	+++++ 0.0014	+++++ 0.0014	0.0010 0.0014	0.0010	0.0013	Lin1	-0.112	0.0014		*	0.0100				0.9990		0.9900
Carbon disulfide	+++++ 0.8737	+++++ 0.8531	0.9146 0.7956	0.8902	0.8620	Ave		0.8649			0.1000	4.7		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.1821	+++++ 0.1837	0.1976 0.1809	0.1885	0.1860	Ave		0.1865			0.1000	3.3		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.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

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	+++++ 0.3256	+++++ 0.3379	0.3118 0.3360	0.3090	0.3176	Ave		0.3230			0.0100	3.8		15.0			
Acrolein	+++++ 0.0183	+++++ 0.0203	0.0128 0.0204	0.0135	0.0158	Lin1	-0.280	0.0204			0.0010				0.9980		0.9900
3-Chloro-1-propene	+++++ 0.2690	+++++ 0.2776	0.2215 0.2769	0.2383	0.2503	Ave		0.2556			0.0100	8.9		15.0			
Isopropyl alcohol	+++++ 0.0061	+++++ 0.0067	0.0041 0.0070	0.0046	0.0055	Lin1	-0.197	0.0069		*	0.0100				0.9980		0.9900
Methylene Chloride	+++++ 0.2348	+++++ 0.2277	0.2562 0.2221	0.2448	0.2360	Ave		0.2369			0.1000	5.1		15.0			
Acetone	+++++ 0.0342	+++++ 0.0315	0.0412 0.0304	0.0355	0.0337	Ave		0.0344		*	0.1000	11.1		15.0			
trans-1,2-Dichloroethene	+++++ 0.2731	0.2457 0.2800	0.2622 0.2713	0.2649	0.2602	Ave		0.2653			0.1000	4.2		15.0			
Methyl acetate	+++++ 0.0074	+++++ 0.0073	0.0042 0.0073	0.0064	0.0068	Lin1	-0.069	0.0074		*	0.1000				1.0000		0.9900
Hexane	+++++ 0.0887	+++++ 0.0891	0.0622 0.0867	0.0791	0.0805	Ave		0.0811			0.0100	12.5		15.0			
Methyl tert-butyl ether	+++++ 0.3884	+++++ 0.3989	0.3167 0.4168	0.3491	0.3535	Ave		0.3706			0.1000	10.0		15.0			
2-Methyl-2-propanol	+++++ 0.0091	+++++ 0.0102	0.0063 0.0111	0.0068	0.0081	Lin1	-0.344	0.0108			0.0100				0.9960		0.9900
Acetonitrile	+++++ 0.0139	+++++ 0.0132	0.0120 0.0132	0.0125	0.0130	Ave		0.0130			0.0010	5.0		15.0			
Isopropyl ether	+++++ 0.7057	+++++ 0.7342	0.4720 0.7531	0.5533	0.6098	Lin1	-1.806	0.7539			0.0100				0.9990		0.9900
2-Chloro-1,3-butadiene	+++++ 0.4569	+++++ 0.4462	0.3449 0.4436	0.3963	0.4201	Ave		0.4180			0.0100	10.0		15.0			
1,1-Dichloroethane	+++++ 0.4623	+++++ 0.4416	0.4814 0.4379	0.4835	0.4672	Ave		0.4623			0.2000	4.2		15.0			
Acrylonitrile	+++++ 0.0426	+++++ 0.0420	0.0382 0.0410	0.0407	0.0405	Ave		0.0408			0.0100	3.8		15.0			
Tert-butyl ethyl ether	+++++ 0.5519	+++++ 0.5711	0.3799 0.5909	0.4299	0.4723	Lin1	-1.405	0.5895			0.0100				0.9990		0.9900
Vinyl acetate	+++++ 0.3361	+++++ 0.3469	0.2480 0.3494	0.2683	0.3024	Ave		0.3085			0.0100	13.9		15.0			
cis-1,2-Dichloroethene	+++++ 0.2776	0.2017 0.2745	0.2483 0.2704	0.2555	0.2555	Ave		0.2548			0.1000	10.2		15.0			
2,2-Dichloropropane	+++++ 0.2411	+++++ 0.2349	0.2347 0.2290	0.2286	0.2291	Ave		0.2329			0.0100	2.1		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.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

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	+++++ 0.4518	+++++ 0.4332	0.3540 0.4168	0.4001	0.4284	Ave		0.4140			0.1000	8.2		15.0			
Bromochloromethane	+++++ 0.0938	+++++ 0.0877	0.0943 0.0848	0.0964	0.0909	Ave		0.0913			0.0100	4.8		15.0			
Chloroform	+++++ 0.4056	0.4031 0.4002	0.4360 0.3992	0.4198	0.3982	Ave		0.4089			0.2000	3.4		15.0			
Carbon tetrachloride	+++++ 0.3079	+++++ 0.3123	0.3083 0.3182	0.3047	0.2998	Ave		0.3085			0.1000	2.0		15.0			
Tetrahydrofuran	+++++ 0.0123	+++++ 0.0126	+++++ 0.0129	0.0083	0.0094	Lin1	-0.110	0.0131			0.0010				0.9990		0.9900
Ethyl acetate	+++++ 0.0176	+++++ 0.0175	0.0105 0.0166	0.0170	0.0172	Lin1	-0.036	0.0172			0.0100				0.9980		0.9900
1,1,1-Trichloroethane	+++++ 0.3658	+++++ 0.3574	0.3501 0.3531	0.3623	0.3592	Ave		0.3580			0.1000	1.6		15.0			
1,1-Dichloropropene	+++++ 0.3684	+++++ 0.3641	0.2799 0.3598	0.3243	0.3335	Ave		0.3383			0.0100	9.9		15.0			
2-Butanone (MEK)	+++++ 0.0513	+++++ 0.0503	0.0375 0.0485	0.0441	0.0455	Ave		0.0462		*	0.1000	11.0		15.0			
Isooctane	+++++ 1.1607	+++++ 1.1329	0.9293 1.1118	1.0679	1.1071	Ave		1.0849			0.0100	7.6		15.0			
Benzene	0.8941 1.0592	1.0391 0.9731	1.1380 0.9113	1.1427	1.0938	Ave		1.0314			0.5000	9.4		15.0			
n-Heptane	+++++ 0.5120	+++++ 0.4748	0.4209 0.4644	0.4885	0.4901	Ave		0.4751			0.0100	6.5		15.0			
Propionitrile	+++++ 0.0155	+++++ 0.0149	0.0150 0.0149	0.0155	0.0156	Ave		0.0152			0.0010	2.2		15.0			
Methacrylonitrile	+++++ 0.0726	+++++ 0.0701	0.0707 0.0667	0.0721	0.0721	Ave		0.0707			0.0100	3.1		15.0			
Tert-amyl methyl ether	+++++ 0.4080	+++++ 0.4115	0.3243 0.4271	0.3500	0.3608	Ave		0.3803			0.0100	10.7		15.0			
1,2-Dichloroethane	+++++ 0.2298	0.2359 0.2232	0.2340 0.2262	0.2334	0.2262	Ave		0.2298			0.1000	2.1		15.0			
Isobutyl alcohol	+++++ 0.0028	+++++ 0.0030	0.0019 0.0032	0.0020	0.0024	Lin1	-0.239	0.0031			0.0010				0.9980		0.9900
Methylcyclohexane	+++++ 0.4404	+++++ 0.4130	0.4061 0.4012	0.4147	0.4242	Ave		0.4166			0.1000	3.4		15.0			
Trichloroethene	+++++ 0.2797	0.2633 0.2578	0.2838 0.2461	0.2987	0.2817	Ave		0.2730			0.2000	6.6		15.0			
n-Butanol	+++++ 0.0028	+++++ 0.0032	0.0016 0.0035	0.0017	0.0022	Lin	-0.644	0.0036		*	0.0100				0.9980		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.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

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	+++++ 0.0991	+++++ 0.0956	0.0919 0.0953	0.0976	0.0952	Ave		0.0958			0.0100	2.6		15.0			
1,2-Dichloropropane	+++++ 0.2361	+++++ 0.2394	0.2086 0.2396	0.2160	0.2150	Ave		0.2258			0.1000	6.2		15.0			
Bromodichloromethane	+++++ 0.2778	+++++ 0.2733	0.2577 0.2780	0.2636	0.2675	Ave		0.2696			0.2000	3.0		15.0			
Ethyl acrylate	+++++ 0.1533	+++++ 0.1610	0.0839 0.1694	0.0970	0.1210	Lin1	-0.591	0.1689			0.0100				0.9980		0.9900
Methyl methacrylate	+++++ 0.0891	+++++ 0.0923	0.0485 0.0939	0.0564	0.0699	Lin1	-0.619	0.0949			0.0100				0.9990		0.9900
1,4-Dioxane	+++++ 0.0012	+++++ 0.0013	+++++ 0.0012	0.0008	0.0010	Lin1	-0.091	0.0012			0.0010				0.9990		0.9900
2-Chloroethyl vinyl ether	+++++ 0.0100	+++++ 0.0135	+++++ 0.0150	+++++	0.0053	Ave		0.0110			0.0100	39.0	*	15.0			
cis-1,3-Dichloropropene	+++++ 0.3248	+++++ 0.3436	0.2155 0.3496	0.2322	0.2696	Lin1	-0.961	0.3509			0.2000				0.9990		0.9900
Toluene	0.5929 1.0540	0.7747 1.0437	0.9550 1.0582	1.0354	1.0558	Lin1	-0.507	1.0593			0.4000				1.0000		0.9900
2-Nitropropane	+++++ 0.0420	+++++ 0.0499	0.0316 0.0580	0.0303	0.0351	QuaF		0.0390	0.0000478		0.0100				0.9990		0.9900
Tetrachloroethene	+++++ 0.3208	0.2901 0.3291	0.3392 0.3280	0.3187	0.3057	Ave		0.3188			0.2000	5.1		15.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.1657	+++++ 0.1806	0.1071 0.1939	0.1256	0.1418	Lin1	-0.592	0.1904			0.1000				0.9970		0.9900
trans-1,3-Dichloropropene	+++++ 0.4007	+++++ 0.4257	0.2935 0.4557	0.3178	0.3580	Lin1	-1.127	0.4475			0.1000				0.9980		0.9900
1,1,2-Trichloroethane	+++++ 0.1960	+++++ 0.2067	0.2070 0.2156	0.1977	0.1892	Ave		0.2020			0.1000	4.7		15.0			
Ethyl methacrylate	+++++ 0.2709	+++++ 0.3023	0.1384 0.3338	0.1663	0.2126	Lin1	-1.377	0.3257			0.0100				0.9940		0.9900
Dibromochloromethane	+++++ 0.2417	+++++ 0.2664	0.2198 0.2886	0.2300	0.2283	Ave		0.2458			0.1000	10.8		15.0			
1,3-Dichloropropane	+++++ 0.4207	+++++ 0.4268	0.3846 0.4530	0.3780	0.3933	Ave		0.4094			0.0100	7.1		15.0			
1,2-Dibromoethane	+++++ 0.2054	+++++ 0.2157	0.1797 0.2315	0.1857	0.1874	Ave		0.2009			0.1000	10.1		15.0			
n-Butyl acetate	+++++ 0.2766	+++++ 0.3237	0.1705 0.3691	0.1696	0.2031	Lin	-3.068	0.3767			0.0100				0.9960		0.9900
2-Hexanone	+++++ 0.1161	+++++ 0.1236	0.0590 0.1421	0.0750	0.0975	Lin1	-0.547	0.1373			0.1000				0.9940		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.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

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	+++++ 0.7130	+++++ 0.6927	0.6852 0.6624	0.7097	0.7119	Ave		0.6958			0.0100	2.9		15.0			
Chlorobenzene	+++++ 1.0185	+++++ 0.9897	1.1220 0.9389	1.1048	1.0469	Ave		1.0368			0.5000	6.7		15.0			
Ethylbenzene	1.7485 2.0069	1.8700 1.9463	2.0937 1.8944	2.0861	1.9953	Ave		1.9551			0.1000	5.9		15.0			
1,1,1,2-Tetrachloroethane	+++++ 0.2983	+++++ 0.3090	0.3246 0.3221	0.3076	0.2917	Ave		0.3089			0.0100	4.2		15.0			
m,p-Xylenes	0.4140 0.7395	0.5263 0.7383	0.6307 0.7335	0.6770	0.7139	Lin1	-0.409	0.7380			0.1000				1.0000		0.9900
o-Xylene	0.3220 0.6697	0.3882 0.6847	0.4729 0.6908	0.5547	0.6262	Lin1	-0.606	0.6864			0.3000				0.9990		0.9900
Styrene	+++++ 1.0613	+++++ 1.0383	0.8179 1.0283	0.9869	1.0344	Ave		0.9945			0.3000	9.0		15.0			
Bromoform	+++++ 0.2847	+++++ 0.2797	0.2297 0.2882	0.2454	0.2554	Ave		0.2638			0.1000	9.1		15.0			
Isopropylbenzene	+++++ 4.7230	+++++ 4.4335	3.2681 4.1760	3.9433	4.2021	Ave		4.1243			0.1000	12.0		15.0			
Bromobenzene	+++++ 0.8779	+++++ 0.8362	0.7112 0.8226	0.7595	0.8049	Ave		0.8021			0.0100	7.4		15.0			
N-Propylbenzene	+++++ 5.7586	+++++ 5.2625	4.4338 4.8151	5.2209	5.3400	Ave		5.1385			0.0100	8.9		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.5841	+++++ 0.5658	0.5878 0.5784	0.5705	0.5602	Ave		0.5745			0.3000	1.9		15.0			
2-Chlorotoluene	+++++ 3.1782	+++++ 3.0490	2.6096 2.9642	2.8191	2.9661	Ave		2.9311			0.0100	6.7		15.0			
1,3,5-Trimethylbenzene	+++++ 3.5393	+++++ 3.3152	2.7986 3.1013	3.3104	3.4126	Ave		3.2462			0.0100	8.1		15.0			
1,2,3-Trichloropropane	+++++ 0.1649	+++++ 0.1563	0.1651 0.1540	0.1532	0.1599	Ave		0.1589			0.0100	3.3		15.0			
Cyclohexanone	+++++ 0.0130	+++++ 0.0159	0.0103 0.0173	0.0105	0.0111	Lin1	-0.571	0.0167			0.0010				0.9910		0.9900
trans-1,4-Dichloro-2-butene	+++++ 0.1705	+++++ 0.1762	0.1201 0.1843	0.1227	0.1491	Lin1	-0.460	0.1833			0.0100				0.9990		0.9900
4-Chlorotoluene	+++++ 3.2168	+++++ 3.0405	2.6912 2.9683	2.8971	2.9650	Ave		2.9631			0.0100	5.8		15.0			
tert-Butylbenzene	+++++ 3.1442	+++++ 2.9502	2.2505 2.8195	2.7195	2.8781	Ave		2.7937			0.0100	10.8		15.0			
1,2,4-Trimethylbenzene	+++++ 3.5361	+++++ 3.2503	2.8183 3.1271	3.2683	3.3513	Ave		3.2252			0.0100	7.5		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.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

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	+++++ 4.9858	+++++ 4.5991	4.3155 4.2236	4.7194	4.7432	Ave		4.5978			0.0100	6.2		15.0			
p-Isopropyltoluene	+++++ 3.9455	+++++ 3.6742	2.9450 3.4525	3.3954	3.6635	Ave		3.5127			0.0100	9.7		15.0			
1,3-Dichlorobenzene	+++++ 1.7234	+++++ 1.6086	1.7800 1.5719	1.7105	1.6830	Ave		1.6796			0.6000	4.6		15.0			
1,4-Dichlorobenzene	+++++ 1.6326	+++++ 1.5259	1.7284 1.4640	1.6765	1.6283	Ave		1.6093			0.5000	6.1		15.0			
1,2,3-Trimethylbenzene	+++++ 3.1145	+++++ 2.9534	3.0601 2.8234	3.0835	3.0573	Ave		3.0154			0.0100	3.6		15.0			
Benzyl chloride	+++++ 0.1847	+++++ 0.1886	0.1380 0.1914	0.1512	0.1688	Ave		0.1704			0.0100	12.9		15.0			
n-Butylbenzene	+++++ 1.0107	+++++ 0.9439	0.7785 0.8958	0.9021	0.9614	Ave		0.9154			0.0100	8.6		15.0			
1,2-Dichlorobenzene	+++++ 1.4216	+++++ 1.3520	1.3337 1.3389	1.3887	1.3832	Ave		1.3697			0.4000	2.5		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0668	+++++ 0.0710	0.0237 0.0775	0.0565	0.0678	Lin1	-0.250	0.0766			0.0500				0.9980		0.9900
n-Nonyl Aldehyde	+++++ 0.3153	+++++ 0.3246	0.1802 0.3604	0.1517	0.2672	Lin1	-1.360	0.3538			0.0100				0.9950		0.9900
1,3,5-Trichlorobenzene	+++++ 1.1730	+++++ 1.0682	1.0344 0.9612	1.0851	1.1430	Ave		1.0775			0.0100	7.1		15.0			
Hexachlorobutadiene	+++++ 0.5206	+++++ 0.4744	0.5317 0.4406	0.5089	0.5247	Ave		0.5002			0.0100	7.1		15.0			
1,2,4-Trichlorobenzene	+++++ 0.8782	+++++ 0.8169	0.6726 0.7584	0.7171	0.7975	Ave		0.7735			0.2000	9.5		15.0			
Naphthalene	+++++ 1.4348	+++++ 1.4236	0.7835 1.4077	0.9646	1.1642	Lin1	-3.843	1.4430			0.0100				0.9990		0.9900
1,2,3-Trichlorobenzene	+++++ 0.7283	+++++ 0.6799	0.5323 0.6274	0.6496	0.6726	Ave		0.6483			0.0100	10.2		15.0			
Dibromofluoromethane (Surr)	+++++ 0.1999	+++++ 0.1935	0.2177 0.2040	0.1933	0.1993	Ave		0.2013			0.0100	4.5		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.1902	+++++ 0.1855	0.2180 0.2027	0.1887	0.1862	Ave		0.1952			0.0100	6.5		15.0			
Toluene-d8 (Surr)	+++++ 1.5007	+++++ 1.5121	1.3034 1.6240	1.2791	1.4366	Ave		1.4427			0.0100	9.2		15.0			
4-Bromofluorobenzene (Surr)	+++++ 1.1438	+++++ 1.1750	0.8843 1.2999	0.9209	1.0172	Ave		1.0735			0.0100	14.9		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.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-327349/3	XICL8774.D
Level 2	IC 160-327349/4	XICL8775.D
Level 3	IC 160-327349/5	XICL8776.D
Level 4	IC 160-327349/6	XICL8777.D
Level 5	IC 160-327349/7	XICL8778.D
Level 6	ICIS 160-327349/8	XICL8779.D
Level 7	IC 160-327349/9	XICL8780.D
Level 8	IC 160-327349/10	XICL8781.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	+++++ 476813	+++++ 904088	43671 1815577	92170	178308	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	FB	Ave	+++++ 200091	+++++ 520620	18119 1001380	36501	74245	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chloromethane	FB	Ave	+++++ 604563	+++++ 1155387	57460 2295470	121870	230416	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Vinyl chloride	FB	Ave	8732 465546	20455 899503	46265 1705869	92075	184101	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Butadiene	FB	Ave	+++++ 406962	+++++ 703739	41302 1344303	79037	159396	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromomethane	FB	Ave	+++++ 171737	+++++ 339854	19706 670748	33196	74412	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chloroethane	FB	Ave	+++++ 162433	+++++ 295902	18039 691583	35168	70341	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	+++++ 486599	+++++ 920110	48798 1871063	92319	191003	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	+++++ 444474	+++++ 917735	45370 1798336	86182	170493	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl ether	FB	Ave	+++++ 184229	+++++ 386802	16507 783935	32928	68468	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1-Dichloroethene	FB	Ave	+++++ 411917	+++++ 853714	37580 1644651	74958	152118	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethanol	FB	Lin1	+++++ 87940	+++++ 187061	6005 374431	11961	31629	+++++ 2000	+++++ 4000	200 8000	400	800
Carbon disulfide	FB	Ave	+++++ 1387016	+++++ 2756424	130976 5209065	265431	522123	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 289107	+++++ 593639	28293 1184484	56216	112658	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Iodomethane	FB	Ave	+++++ 516842	+++++ 1091905	44647 2200068	92137	192389	+++++ 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.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

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	Lin1	+++++ 144890	+++++ 327149	9150 666905	20083	47968	+++++ 250	+++++ 500	25.0 1000	50.0	100
3-Chloro-1-propene	FB	Ave	+++++ 427097	+++++ 896971	31725 1813234	71062	151613	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isopropyl alcohol	FB	Lin1	+++++ 96973	+++++ 215442	5838 456727	13717	33075	+++++ 500	+++++ 1000	50.0 2000	100	200
Methylene Chloride	FB	Ave	+++++ 372705	+++++ 735842	36691 1454384	72979	142932	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Acetone	FB	Ave	+++++ 54228	+++++ 101810	5907 199240	10578	20413	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 433501	17082 904740	37555 1776273	78970	157583	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
Methyl acetate	FB	Lin1	+++++ 58841	+++++ 117962	2992 238899	9469	20579	+++++ 250	+++++ 500	25.0 1000	50.0	100
Hexane	FB	Ave	+++++ 140770	+++++ 287989	8913 567437	23576	48783	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Methyl tert-butyl ether	FB	Ave	+++++ 616607	+++++ 1288905	45361 2728680	104077	214132	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Methyl-2-propanol	FB	Lin1	+++++ 145025	+++++ 329754	8996 725369	20233	49252	+++++ 500	+++++ 1000	50.0 2000	100	200
Acetonitrile	FB	Ave	+++++ 220058	+++++ 427479	17213 866941	37259	78797	+++++ 500	+++++ 1000	50.0 2000	100	200
Isopropyl ether	FB	Lin1	+++++ 1120237	+++++ 2372359	67598 4930569	164966	369376	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 725289	+++++ 1441541	49398 2904134	118168	254453	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	+++++ 733911	+++++ 1426852	68940 2866923	144146	283019	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Acrylonitrile	FB	Ave	+++++ 676749	+++++ 1358496	54652 2686520	121334	245045	+++++ 500	+++++ 1000	50.0 2000	100	200
Tert-butyl ethyl ether	FB	Lin1	+++++ 876182	+++++ 1845097	54412 3869048	128183	286058	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Vinyl acetate	FB	Ave	+++++ 533556	+++++ 1120711	35515 2287824	79999	183196	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 440738	14018 886969	35562 1770312	76179	154739	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 382771	+++++ 759038	33618 1499570	68146	138787	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Cyclohexane	FB	Ave	+++++ 717268	+++++ 1399614	50697 2728890	119299	259462	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromochloromethane	FB	Ave	+++++ 148914	+++++ 283198	13501 555206	28735	55071	+++++ 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.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

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	+++++ 643880	28023 1292958	62437 2613800	125167	241202	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
Carbon tetrachloride	FB	Ave	+++++ 488830	+++++ 1008935	44154 2083596	90861	181565	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Tetrahydrofuran	FB	Lin1	+++++ 39052	+++++ 81284	+++++ 168438	4961	11413	+++++ 100	+++++ 200	+++++ 400	20.0	40.0
Ethyl acetate	FB	Lin1	+++++ 55817	+++++ 113063	2994 217592	10120	20820	+++++ 100	+++++ 200	10.0 400	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	+++++ 580636	+++++ 1154878	50143 2312065	108030	217587	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	+++++ 584785	+++++ 1176304	40092 2355714	96690	202035	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Butanone (MEK)	FB	Ave	+++++ 81378	+++++ 162419	5373 317764	13144	27552	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isooctane	FB	Ave	+++++ 1842510	+++++ 3660317	133088 7279619	318404	670602	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Benzene	FB	Ave	23877 1681513	72234 3144135	162978 5966969	340714	662526	1.00 50.0	2.50 100	5.00 200	10.0	20.0
n-Heptane	FB	Ave	+++++ 812810	+++++ 1533995	60277 3040812	145665	296883	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Propionitrile	FB	Ave	+++++ 246677	+++++ 482963	21487 973400	46107	94745	+++++ 500	+++++ 1000	50.0 2000	100	200
Methacrylonitrile	FB	Ave	+++++ 1153296	+++++ 2264386	101213 4365830	215109	436485	+++++ 500	+++++ 1000	50.0 2000	100	200
Tert-amyl methyl ether	FB	Ave	+++++ 647633	+++++ 1329415	46450 2796310	104351	218542	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloroethane	FB	Ave	+++++ 364727	16400 721204	33506 1481158	69594	136987	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
Isobutyl alcohol	FB	Lin1	+++++ 111585	+++++ 243015	6666 521307	14557	36247	+++++ 1250	+++++ 2500	125 5000	250	500
Methylcyclohexane	FB	Ave	+++++ 699069	+++++ 1334287	58165 2626602	123648	256919	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Trichloroethene	FB	Ave	+++++ 443942	18300 832988	40641 1611456	89064	170618	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
n-Butanol	FB	Lin	+++++ 110225	+++++ 258969	5662 579470	12855	33407	+++++ 1250	+++++ 2500	125 5000	250	500
Dibromomethane	FB	Ave	+++++ 157291	+++++ 308971	13155 623790	29101	57637	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	+++++ 374781	+++++ 773399	29876 1568891	64396	130220	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromodichloromethane	FB	Ave	+++++ 440963	+++++ 882934	36912 1820015	78585	162000	+++++ 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.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

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	Lin1	+++++ 243322	+++++ 520306	12012 1109314	28925	73320	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Methyl methacrylate	FB	Lin1	+++++ 282926	+++++ 596274	13882 1229643	33604	84649	+++++ 100	+++++ 200	10.0 400	20.0	40.0
1,4-Dioxane	FB	Lin1	+++++ 37602	+++++ 80858	+++++ 156526	4783	11520	+++++ 1000	+++++ 2000	+++++ 4000	200	400
2-Chloroethyl vinyl ether	FB	Ave	+++++ 15887	+++++ 43598	+++++ 97911	+++++	3239	+++++ 50.0	+++++ 100	+++++ 200	+++++	20.0
cis-1,3-Dichloropropene	FB	Lin1	+++++ 515600	+++++ 1110060	30861 2289275	69228	163328	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Toluene	CBNZ d5	Lin1	9391 1052584	32225 2013483	82127 3905782	191636	400274	1.00 50.0	2.50 100	5.00 200	10.0	20.0
2-Nitropropane	CBNZ d5	QuaF	+++++ 83955	+++++ 192637	5429 428507	11200	26591	+++++ 100	+++++ 200	10.0 400	20.0	40.0
Tetrachloroethene	CBNZ d5	Ave	+++++ 320366	12069 634853	29170 1210625	58981	115918	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Lin1	+++++ 165455	+++++ 348358	9213 715880	23242	53752	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Lin1	+++++ 400143	+++++ 821131	25239 1681972	58827	135709	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 195692	+++++ 398666	17805 795777	36586	71745	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl methacrylate	CBNZ d5	Lin1	+++++ 270504	+++++ 583092	11899 1232214	30779	80587	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dibromochloromethane	CBNZ d5	Ave	+++++ 241368	+++++ 513886	18901 1065187	42567	86537	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 420143	+++++ 823279	33076 1672142	69967	149123	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 205162	+++++ 416097	15452 854496	34361	71058	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Butyl acetate	CBNZ d5	Lin	+++++ 276178	+++++ 624518	14664 1362235	31388	76988	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Hexanone	CBNZ d5	Lin1	+++++ 115988	+++++ 238474	5071 524451	13881	36976	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1-Chlorohexane	CBNZ d5	Ave	+++++ 712087	+++++ 1336226	58929 2444913	131344	269899	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chlorobenzene	CBNZ d5	Ave	+++++ 1017147	+++++ 1909328	96492 3465576	204481	396925	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	27695 2004246	77788 3754563	180053 6992509	386099	756468	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 297891	+++++ 596098	27919 1188747	56921	110585	+++++ 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.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

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	Lin1	6558 738541	21893 1424281	54237 2707317	125290	270669	1.00 50.0	2.50 100	5.00 200	10.0	20.0
o-Xylene	CBNZ d5	Lin1	5100 668765	16147 1320810	40664 2549719	102667	237415	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Styrene	CBNZ d5	Ave	+++++ 1059919	+++++ 2002935	70338 3795676	182661	392160	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromoform	DCBd 4	Ave	+++++ 111971	+++++ 221463	8789 444388	19551	41245	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isopropylbenzene	DCBd 4	Ave	+++++ 1857613	+++++ 3510704	125035 6438144	314206	678683	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromobenzene	DCBd 4	Ave	+++++ 345269	+++++ 662158	27211 1268282	60519	129994	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
N-Propylbenzene	DCBd 4	Ave	+++++ 2264941	+++++ 4167150	169633 7423445	416009	862464	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 229729	+++++ 448043	22489 891784	45456	90485	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 1250015	+++++ 2414378	99843 4569966	224633	479063	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 1392047	+++++ 2625163	107072 4781238	263776	551165	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 64838	+++++ 123792	6318 237457	12207	25826	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Cyclohexanone	DCBd 4	Lin1	+++++ 51095	+++++ 125551	3922 266709	8406	17859	+++++ 500	+++++ 1000	50.0 2000	100	200
trans-1,4-Dichloro-2-butene	DCBd 4	Lin1	+++++ 67041	+++++ 139558	4595 284124	9777	24080	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
4-Chlorotoluene	DCBd 4	Ave	+++++ 1265202	+++++ 2407654	102962 4576250	230843	478882	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 1236651	+++++ 2336167	86103 4346762	216691	464839	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 1390783	+++++ 2573754	107827 4821009	260427	541277	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 1960994	+++++ 3641858	165108 6511559	376049	766073	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
p-Isopropyltoluene	DCBd 4	Ave	+++++ 1551794	+++++ 2909464	112673 5322787	270553	591686	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 677834	+++++ 1273779	68100 2423470	136292	271815	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 642119	+++++ 1208329	66129 2257003	133587	262981	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 1224985	+++++ 2338660	117077 4352877	245700	493788	+++++ 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.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

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	+++++ 72634	+++++ 149308	5279 295098	12044	27256	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Butylbenzene	DCBd 4	Ave	+++++ 397531	+++++ 747434	29785 1381000	71882	155282	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 559152	+++++ 1070580	51026 2064192	110652	223406	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin1	+++++ 26272	+++++ 56211	907 119549	4499	10947	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Nonyl Aldehyde	DCBd 4	Lin1	+++++ 123997	+++++ 257019	6896 555691	12091	43149	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 461346	+++++ 845878	39574 1481897	86464	184608	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 204763	+++++ 375680	20342 679211	40553	84749	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 345410	+++++ 646901	25734 1169264	57139	128807	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Naphthalene	DCBd 4	Lin1	+++++ 564340	+++++ 1127266	29975 2170322	76858	188026	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 286434	+++++ 538387	20364 967208	51759	108626	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 317325	+++++ 625168	31171 1335896	57628	120704	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 301998	+++++ 599291	31217 1326987	56253	112806	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	+++++ 1498678	+++++ 2916915	112092 5994488	236738	544644	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	+++++ 449864	+++++ 930408	33832 2004020	73376	164293	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
QuaF = Quadratic ISTD forced zero

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-327349/3	XICL8774.D
Level 2	IC 160-327349/4	XICL8775.D
Level 3	IC 160-327349/5	XICL8776.D
Level 4	IC 160-327349/6	XICL8777.D
Level 5	IC 160-327349/7	XICL8778.D
Level 6	ICIS 160-327349/8	XICL8779.D
Level 7	IC 160-327349/9	XICL8780.D
Level 8	IC 160-327349/10	XICL8781.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	+++++ -4.9	+++++ -5.8	3.6	5.0	0.0	2.1	30	30	30	30	30	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 19.1	+++++ 13.1	-6.5	-9.5	-9.4	-6.8	30	30	30	30	30	30
Chloromethane	+++++ -5.9	+++++ -7.7	5.6	7.6	0.1	0.2	30	30	30	30	30	30
Vinyl chloride	9.5 -6.8	-1.5 -12.8	8.2	3.4	1.8	-1.8	30 30	30 30	30	30	30	30
Butadiene	+++++ -12.7	+++++ -17.7	15.7	6.3	5.5	2.8	30	30	30	30	30	30
Bromomethane	+++++ -8.2	+++++ -10.6	20.1	-2.8	7.2	-5.6	30	30	30	30	30	30
Chloroethane	+++++ -16.7	+++++ -3.9	14.6	7.3	5.6	-6.9	30	30	30	30	30	30
Trichlorofluoromethane	+++++ -7.3	+++++ -7.0	10.9	0.8	2.7	-0.2	30	30	30	30	30	30
Dichlorofluoromethane	+++++ -1.3	+++++ -4.5	10.1	0.5	-2.2	-2.7	30	30	30	30	30	30
Ethyl ether	+++++ 3.5	+++++ 3.5	-0.4	-4.6	-2.3	0.3	30	30	30	30	30	30
1,1-Dichloroethene	+++++ 3.0	+++++ -2.1	2.2	-2.0	-2.1	1.1	30	30	30	30	30	30
Ethanol	+++++ 1.8	+++++ -0.4	11.0	-11.5	-0.3	-0.6	30	30	30	30	30	30
Carbon disulfide	+++++ -1.4	+++++ -8.0	5.7	2.9	-0.3	1.0	30	30	30	30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ -1.5	+++++ -3.0	5.9	1.1	-0.3	-2.3	30	30	30	30	30	30
Iodomethane	+++++ 4.6	+++++ 4.0	-3.5	-4.3	-1.7	0.8	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Acrolein	+++++ 1.9	+++++ 1.1	17.5	-6.6	-8.7	-5.1	30	30	30	30	30	30
3-Chloro-1-propene	+++++ 8.6	+++++ 8.3	-13.3	-6.8	-2.1	5.2	30	30	30	30	30	30
Isopropyl alcohol	+++++ -0.7	+++++ 2.3	16.0	-4.9	-6.8	-5.9	30	30	30	30	30	30
Methylene Chloride	+++++ -3.9	+++++ -6.2	8.1	3.3	-0.4	-0.9	30	30	30	30	30	30
Acetone	+++++ -8.5	+++++ -11.6	19.8	3.1	-2.1	-0.8	30	30	30	30	30	30
trans-1,2-Dichloroethene	+++++ 5.5	-7.4 2.2	-1.2	-0.2	-2.0	2.9	30	30 30	30	30	30	30
Methyl acetate	+++++ 0.0	+++++ -0.9	-6.9	3.9	0.6	3.4	30	30	30	30	30	30
Hexane	+++++ 10.0	+++++ 6.9	-23.2	-2.4	-0.6	9.4	30	30	30	30	30	30
Methyl tert-butyl ether	+++++ 7.7	+++++ 12.5	-14.5	-5.8	-4.6	4.8	30	30	30	30	30	30
2-Methyl-2-propanol	+++++ -2.4	+++++ 4.1	21.7	-5.4	-8.9	-9.1	30	30	30	30	30	30
Acetonitrile	+++++ 2.0	+++++ 2.0	-7.4	-3.7	0.3	6.8	30	30	30	30	30	30
Isopropyl ether	+++++ -0.2	+++++ 1.1	10.5	-2.7	-7.1	-1.6	30	30	30	30	30	30
2-Chloro-1,3-butadiene	+++++ 6.7	+++++ 6.1	-17.5	-5.2	0.5	9.3	30	30	30	30	30	30
1,1-Dichloroethane	+++++ -4.5	+++++ -5.3	4.1	4.6	1.1	0.0	30	30	30	30	30	30
Acrylonitrile	+++++ 3.0	+++++ 0.5	-6.6	-0.3	-0.9	4.4	30	30	30	30	30	30
Tert-butyl ethyl ether	+++++ -0.7	+++++ 1.4	12.1	-3.2	-8.0	-1.6	30	30	30	30	30	30
Vinyl acetate	+++++ 12.4	+++++ 13.3	-19.6	-13.0	-2.0	8.9	30	30	30	30	30	30
cis-1,2-Dichloroethene	+++++ 7.7	-20.9 6.1	-2.5	0.3	0.3	9.0	30	30 30	30	30	30	30
2,2-Dichloropropane	+++++ 0.9	+++++ -1.7	0.8	-1.9	-1.6	3.5	30	30	30	30	30	30
Cyclohexane	+++++ 4.6	+++++ 0.7	-14.5	-3.4	3.5	9.1	30	30	30	30	30	30
Bromochloromethane	+++++ -4.0	+++++ -7.1	3.3	5.6	-0.4	2.7	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Chloroform	+++++ -2.1	-1.4 -2.4	6.6	2.7	-2.6	-0.8	30	30 30	30	30	30	30
Carbon tetrachloride	+++++ 1.2	+++++ 3.1	-0.1	-1.2	-2.8	-0.2	30	30	30	30	30	30
Tetrahydrofuran	+++++ -0.1	+++++ 0.0	+++++	5.3	-7.3	2.0	30	30		30	30	30
Ethyl acetate	+++++ 2.7	+++++ -2.9	-18.3	9.1	5.1	4.2	30	30	30	30	30	30
1,1,1-Trichloroethane	+++++ -0.2	+++++ -1.4	-2.2	1.2	0.3	2.2	30	30	30	30	30	30
1,1-Dichloropropene	+++++ 7.6	+++++ 6.3	-17.3	-4.2	-1.4	8.9	30	30	30	30	30	30
2-Butanone (MEK)	+++++ 8.8	+++++ 5.1	-18.8	-4.6	-1.5	11.0	30	30	30	30	30	30
Isooctane	+++++ 4.4	+++++ 2.5	-14.3	-1.6	2.0	7.0	30	30	30	30	30	30
Benzene	-13.3 -5.7	0.7 -11.6	10.3	10.8	6.0	2.7	30 30	30 30	30	30	30	30
n-Heptane	+++++ -0.1	+++++ -2.3	-11.4	2.8	3.2	7.8	30	30	30	30	30	30
Propionitrile	+++++ -1.9	+++++ -2.5	-1.6	1.4	2.6	1.9	30	30	30	30	30	30
Methacrylonitrile	+++++ -0.9	+++++ -5.7	-0.1	2.0	1.9	2.7	30	30	30	30	30	30
Tert-amyl methyl ether	+++++ 8.2	+++++ 12.3	-14.7	-8.0	-5.1	7.3	30	30	30	30	30	30
1,2-Dichloroethane	+++++ -2.9	2.7 -1.6	1.8	1.6	-1.6	0.0	30	30 30	30	30	30	30
Isobutyl alcohol	+++++ -1.4	+++++ 2.6	19.9	-7.6	-8.8	-4.6	30	30	30	30	30	30
Methylcyclohexane	+++++ -0.9	+++++ -3.7	-2.5	-0.5	1.8	5.7	30	30	30	30	30	30
Trichloroethene	+++++ -5.6	-3.6 -9.8	3.9	9.4	3.2	2.4	30	30 30	30	30	30	30
n-Butanol	+++++ -4.2	+++++ 1.5	86.3 *	19.0	-3.3	-8.9	30	30	30	30	30	30
Dibromomethane	+++++ -0.1	+++++ -0.5	-4.1	1.9	-0.6	3.5	30	30	30	30	30	30
1,2-Dichloropropane	+++++ 6.0	+++++ 6.1	-7.6	-4.3	-4.8	4.6	30	30	30	30	30	30
Bromodichloromethane	+++++ 1.3	+++++ 3.1	-4.4	-2.2	-0.8	3.0	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Ethyl acrylate	+++++ -1.1	+++++ 2.1	19.6	-7.6	-10.8	-2.2	30	30	30	30	30	30
Methyl methacrylate	+++++ 0.5	+++++ 0.6	16.4	-8.0	-10.0	0.5	30	30	30	30	30	30
1,4-Dioxane	+++++ 4.1	+++++ -2.2	+++++	1.0	-5.4	2.4	30	30		30	30	30
2-Chloroethyl vinyl ether	+++++ 23.2	+++++ 36.6 *	+++++	+++++	-51.2 *	-8.6	30	30			30	30
cis-1,3-Dichloropropene	+++++ 0.7	+++++ 1.0	16.2	-6.4	-9.5	-2.0	30	30	30	30	30	30
Toluene	3.8 -1.0	-7.7 0.1	-0.3	2.5	2.1	0.5	30 30	30 30	30	30	30	30
2-Nitropropane	+++++ 2.3	+++++ -0.2	-19.9	-23.9	-13.8	-3.7	30	30	30	30	30	30
Tetrachloroethene	+++++ 3.2	-9.0 2.9	6.4	0.0	-4.1	0.6	30	30 30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	+++++ -2.1	+++++ 3.4	18.4	-3.0	-10.0	-6.8	30	30	30	30	30	30
trans-1,3-Dichloropropene	+++++ -2.4	+++++ 3.1	15.9	-3.8	-7.4	-5.4	30	30	30	30	30	30
1,1,2-Trichloroethane	+++++ 2.3	+++++ 6.7	2.5	-2.2	-6.3	-3.0	30	30	30	30	30	30
Ethyl methacrylate	+++++ -3.0	+++++ 4.6	27.0	-6.7	-13.6	-8.4	30	30	30	30	30	30
Dibromochloromethane	+++++ 8.4	+++++ 17.4	-10.6	-6.4	-7.1	-1.7	30	30	30	30	30	30
1,3-Dichloropropane	+++++ 4.2	+++++ 10.6	-6.1	-7.7	-3.9	2.8	30	30	30	30	30	30
1,2-Dibromoethane	+++++ 7.4	+++++ 15.2	-10.6	-7.6	-6.7	2.3	30	30	30	30	30	30
n-Butyl acetate	+++++ -5.9	+++++ 2.0	108.2 *	26.5	-5.4	-10.3	30	30	30	30	30	30
2-Hexanone	+++++ -6.0	+++++ 5.5	22.6	-5.6	-9.1	-7.4	30	30	30	30	30	30
1-Chlorohexane	+++++ -0.5	+++++ -4.8	-1.5	2.0	2.3	2.5	30	30	30	30	30	30
Chlorobenzene	+++++ -4.5	+++++ -9.4	8.2	6.6	1.0	-1.8	30	30	30	30	30	30
Ethylbenzene	-10.6 -0.5	-4.4 -3.1	7.1	6.7	2.1	2.6	30 30	30 30	30	30	30	30
1,1,1,2-Tetrachloroethane	+++++ 0.0	+++++ 4.3	5.1	-0.4	-5.6	-3.4	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
m,p-Xylenes	11.6 0.6	-6.5 -0.3	-3.4	-2.7	-0.5	1.3	30 30	30 30	30	30	30	30
o-Xylene	35.3 * 0.6	-8.1 1.1	-13.4	-10.4	-4.4	-0.7	30 30	30 30	30	30	30	30
Styrene	+++++ 4.4	+++++ 3.4	-17.8	-0.8	4.0	6.7	30	30	30	30	30	30
Bromoform	+++++ 6.0	+++++ 9.2	-12.9	-7.0	-3.2	7.9	30	30	30	30	30	30
Isopropylbenzene	+++++ 7.5	+++++ 1.3	-20.8	-4.4	1.9	14.5	30	30	30	30	30	30
Bromobenzene	+++++ 4.3	+++++ 2.6	-11.3	-5.3	0.4	9.5	30	30	30	30	30	30
N-Propylbenzene	+++++ 2.4	+++++ -6.3	-13.7	1.6	3.9	12.1	30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	+++++ -1.5	+++++ 0.7	2.3	-0.7	-2.5	1.7	30	30	30	30	30	30
2-Chlorotoluene	+++++ 4.0	+++++ 1.1	-11.0	-3.8	1.2	8.4	30	30	30	30	30	30
1,3,5-Trimethylbenzene	+++++ 2.1	+++++ -4.5	-13.8	2.0	5.1	9.0	30	30	30	30	30	30
1,2,3-Trichloropropane	+++++ -1.6	+++++ -3.1	3.9	-3.6	0.6	3.7	30	30	30	30	30	30
Cyclohexanone	+++++ -1.4	+++++ 5.5	30.0	-2.4	-16.5	-15.2	30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	+++++ -1.3	+++++ 1.8	15.7	-8.0	-6.1	-2.0	30	30	30	30	30	30
4-Chlorotoluene	+++++ 2.6	+++++ 0.2	-9.2	-2.2	0.1	8.6	30	30	30	30	30	30
tert-Butylbenzene	+++++ 5.6	+++++ 0.9	-19.4	-2.7	3.0	12.5	30	30	30	30	30	30
1,2,4-Trimethylbenzene	+++++ 0.8	+++++ -3.0	-12.6	1.3	3.9	9.6	30	30	30	30	30	30
sec-Butylbenzene	+++++ 0.0	+++++ -8.1	-6.1	2.6	3.2	8.4	30	30	30	30	30	30
p-Isopropyltoluene	+++++ 4.6	+++++ -1.7	-16.2	-3.3	4.3	12.3	30	30	30	30	30	30
1,3-Dichlorobenzene	+++++ -4.2	+++++ -6.4	6.0	1.8	0.2	2.6	30	30	30	30	30	30
1,4-Dichlorobenzene	+++++ -5.2	+++++ -9.0	7.4	4.2	1.2	1.4	30	30	30	30	30	30
1,2,3-Trimethylbenzene	+++++ -2.1	+++++ -6.4	1.5	2.3	1.4	3.3	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1 Analy Batch No.: 327349

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 09/14/2017 22:55 Calibration End Date: 09/15/2017 01:49 Calibration ID: 13526

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Benzyl chloride	+++++ 10.6	+++++ 12.3	-19.0	-11.3	-1.0	8.4	30	30	30	30	30	30
n-Butylbenzene	+++++ 3.1	+++++ -2.1	-15.0	-1.5	5.0	10.4	30	30	30	30	30	30
1,2-Dichlorobenzene	+++++ -1.3	+++++ -2.2	-2.6	1.4	1.0	3.8	30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	+++++ -4.0	+++++ 2.9	-3.8	6.4	4.8	-6.3	30	30	30	30	30	30
n-Nonyl Aldehyde	+++++ -4.4	+++++ 3.8	27.8	-18.7	-5.3	-3.2	30	30	30	30	30	30
1,3,5-Trichlorobenzene	+++++ -0.9	+++++ -10.8	-4.0	0.7	6.1	8.9	30	30	30	30	30	30
Hexachlorobutadiene	+++++ -5.1	+++++ -11.9	6.3	1.8	4.9	4.1	30	30	30	30	30	30
1,2,4-Trichlorobenzene	+++++ 5.6	+++++ -1.9	-13.0	-7.3	3.1	13.5	30	30	30	30	30	30
Naphthalene	+++++ 1.3	+++++ -1.1	7.6	-6.5	-6.0	4.8	30	30	30	30	30	30
1,2,3-Trichlorobenzene	+++++ 4.9	+++++ -3.2	-17.9	0.2	3.7	12.3	30	30	30	30	30	30
Dibromofluoromethane (Surr)	+++++ -3.9	+++++ 1.4	8.1	-4.0	-1.0	-0.7	30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	+++++ -5.0	+++++ 3.8	11.7	-3.4	-4.6	-2.5	30	30	30	30	30	30
Toluene-d8 (Surr)	+++++ 4.8	+++++ 12.6	-9.6	-11.3	-0.4	4.0	30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	+++++ 9.5	+++++ 21.1	-17.6	-14.2	-5.2	6.5	30	30	30	30	30	30

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8774.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-Sep-2017 22:55:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011418-003
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 18-Sep-2017 21:38:15 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: hannj Date: 18-Sep-2017 19:13:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.889				ND	ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.043				ND	ND	
3 Chloromethane	50	2.090	2.091	-0.001	96	10230	1.00	1.01	
4 Vinyl chloride	62	2.197	2.197	0.000	93	8732	1.00	1.09	
121 Butadiene	39	2.209	2.221	-0.012	88	7451	1.00	1.12	
5 Bromomethane	94	2.576	2.576	0.000	79	2313	1.00	0.7558	
6 Chloroethane	64		2.741				ND	ND	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	94	7748	1.00	0.9447	
122 Dichlorofluoromethane	67	3.002	3.013	-0.011	93	6665	1.00	0.8676	
8 Ethyl ether	74	3.357	3.357	0.000	44	1618	1.00	0.5237	
10 Carbon disulfide	76		3.605				ND	ND	
11 Ethanol	45		3.605				ND	ND	
9 1,1-Dichloroethene	96	3.593	3.605	-0.012	60	5591	1.00	0.8158	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.712	-0.012	78	2834	1.00	0.5691	
13 Iodomethane	142		3.794				ND	ND	
14 Acrolein	56		4.138				ND	ND	
15 3-Chloro-1-propene	39		4.351				ND	ND	
16 Isopropyl alcohol	45		4.493				ND	ND	
17 Methylene Chloride	84	4.516	4.528	-0.012	86	5290	1.00	0.8361	
18 Acetone	43		4.646				ND	ND	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	91	6388	1.00	0.9016	
20 Methyl acetate	74		4.871				ND	ND	
21 Hexane	86		4.942				ND	ND	
22 Methyl tert-butyl ether	73		5.013				ND	ND	
23 2-Methyl-2-propanol	59		5.238				ND	ND	
24 Acetonitrile	41	5.368	5.380	-0.012	53	1655	10.0	4.78	
25 Isopropyl ether	45		5.640				ND	ND	
27 2-Chloro-1,3-butadiene	53		5.723				ND	ND	
28 1,1-Dichloroethane	63		5.759				ND	ND	
S 26 1,2-Dichloroethene, Total	96				0			1.57	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53		5.865				ND	ND	
30 Tert-butyl ethyl ether	59		6.185				ND	ND	
31 Vinyl acetate	43	6.197	6.197	-0.001	88	3277	1.00	0.3978	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	71	4562	1.00	0.6705	
33 2,2-Dichloropropane	77		6.694				ND	ND	
34 Cyclohexane	84	6.776	6.800	-0.024	1	3588	1.00	0.3245	
35 Chlorobromomethane	128		6.824				ND	ND	
36 Chloroform	83	6.954	6.954	0.000	87	9904	1.00	0.9071	
37 Carbon tetrachloride	117	7.096	7.096	0.000	80	6905	1.00	0.8381	
38 Tetrahydrofuran	71		7.167				ND	ND	
39 Ethyl acetate	45		7.179				ND	ND	
40 1,1,1-Trichloroethane	97	7.190	7.202	-0.012	89	7964	1.00	0.8331	
$ 41 Dibromofluoromethane (Surr	113		7.202				ND	ND	
42 1,1-Dichloropropene	75		7.368				ND	ND	
43 2-Butanone (MEK)	43		7.404				ND	ND	
124 Isooctane	57	7.534	7.546	-0.012	87	15720	1.00	0.5426	
44 Benzene	78	7.699	7.699	0.000	93	23877	1.00	0.8669	
117 n-Heptane	43	7.699	7.699	0.000	55	5370	1.00	0.4232	
45 Propionitrile	54		7.770				ND	ND	
46 Methacrylonitrile	41	7.794	7.794	0.000	88	12431	10.0	6.58	
$ 47 1,2-Dichloroethane-d4 (Sur	65		7.889				ND	ND	
48 Tert-amyl methyl ether	73	7.900	7.900	0.000	89	4479	1.00	0.4411	
49 1,2-Dichloroethane	62	7.971	7.983	-0.012	81	3549	1.00	0.5783	
50 Isobutyl alcohol	42		8.102				ND	ND	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	1335181	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.445	-0.012	86	7936	1.00	0.7134	
53 Trichloroethene	95	8.468	8.468	0.000	88	6563	1.00	0.9003	
54 n-Butanol	56		8.989				ND	ND	
55 Dibromomethane	93		9.001				ND	ND	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	1	3995	1.00	0.6626	
57 Dichlorobromomethane	83	9.226	9.226	0.000	88	4518	1.00	0.6275	
123 Ethyl acrylate	55		9.226				ND	ND	
58 Methyl methacrylate	69		9.474				ND	ND	
59 1,4-Dioxane	88		9.498				ND	ND	
60 2-Chloroethyl vinyl ether	63		9.983				ND	ND	
61 cis-1,3-Dichloropropene	75		10.030				ND	ND	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	85	13665	1.00	0.5980	
63 Toluene	92	10.314	10.314	0.000	95	9391	1.00	1.04	
64 2-Nitropropane	43		10.622				ND	ND	
65 Tetrachloroethene	164	10.764	10.776	-0.012	85	3484	1.00	0.6899	
66 4-Methyl-2-pentanone (MIBK	43		10.811				ND	ND	
67 trans-1,3-Dichloropropene	75		10.835				ND	ND	
68 1,1,2-Trichloroethane	83		11.013				ND	ND	
69 Ethyl methacrylate	69		11.048				ND	ND	
70 Chlorodibromomethane	129	11.190	11.202	-0.012	1	2378	1.00	0.6108	
71 1,3-Dichloropropane	76		11.308				ND	ND	
72 Ethylene Dibromide	107		11.439				ND	ND	
S 73 1,3-Dichloropropene, Total	75		11.620					ND	
118 n-Butyl acetate	43		11.640				ND	ND	
74 2-Hexanone	43		11.723				ND	ND	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	86	791984	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	33	11041	1.00	1.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.006	12.007	0.000	97	17742	1.00	1.08	
78 Ethylbenzene	91	12.042	12.042	0.000	95	27695	1.00	0.8943	
79 1,1,1,2-Tetrachloroethane	131	12.066	12.078	-0.012	82	4230	1.00	0.8646	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	92	6558	1.00	1.12	
82 o-Xylene	106	12.610	12.610	0.000	90	5100	1.00	1.35	
83 Styrene	104	12.657	12.669	-0.012	87	8959	1.00	0.5687	
84 Bromoform	173		12.681				ND	ND	
85 Isopropylbenzene	105	12.918	12.918	0.000	90	14484	1.00	0.5203	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	85	3927	1.00	0.5420	
87 Bromobenzene	156	13.273	13.273	0.000	87	3524	1.00	0.6510	
88 N-Propylbenzene	91	13.308	13.308	0.000	95	18276	1.00	0.5269	
89 1,1,2,2-Tetrachloroethane	83		13.379				ND	ND	
90 2-Chlorotoluene	91	13.438	13.438	0.000	91	11040	1.00	0.5580	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	91	9225	1.00	0.4210	
92 1,2,3-Trichloropropane	110		13.497				ND	ND	
93 trans-1,4-Dichloro-2-buten	53		13.533				ND	ND	
94 Cyclohexanone	55		13.533				ND	ND	
95 4-Chlorotoluene	91	13.604	13.592	0.012	89	11355	1.00	0.5677	
96 tert-Butylbenzene	119	13.770	13.781	-0.011	91	9199	1.00	0.4879	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	88	10524	1.00	0.4834	
98 sec-Butylbenzene	105	13.935	13.935	0.000	91	13758	1.00	0.4433	
99 4-Isopropyltoluene	119	14.065	14.065	0.000	92	9615	1.00	0.4055	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	91	8640	1.00	0.7621	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	337482	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	35	11716	1.00	1.08	
119 1,2,3-Trimethylbenzene	105	14.219	14.231	-0.012	92	16348	1.00	0.8032	
103 n-Butylbenzene	134	14.432	14.432	0.000	93	3434	1.00	0.5558	
120 Benzyl chloride	126		14.432				ND	ND	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	91	7939	1.00	0.8587	
105 1,2-Dibromo-3-Chloropropan	157		15.272				ND	ND	
107 1,3,5-Trichlorobenzene	180		15.284				ND	ND	
106 n-Nonyl Aldehyde	57		15.284				ND	ND	
108 Hexachlorobutadiene	225		15.805				ND	ND	
109 1,2,4-Trichlorobenzene	180		15.840				ND	ND	
110 Naphthalene	128		16.113				ND	ND	
111 1,2,3-Trichlorobenzene	180		16.266				ND	ND	
S 112 Xylenes, Total	106				0			2.47	
S 113 Trihalomethanes, Total	1				0			2.15	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

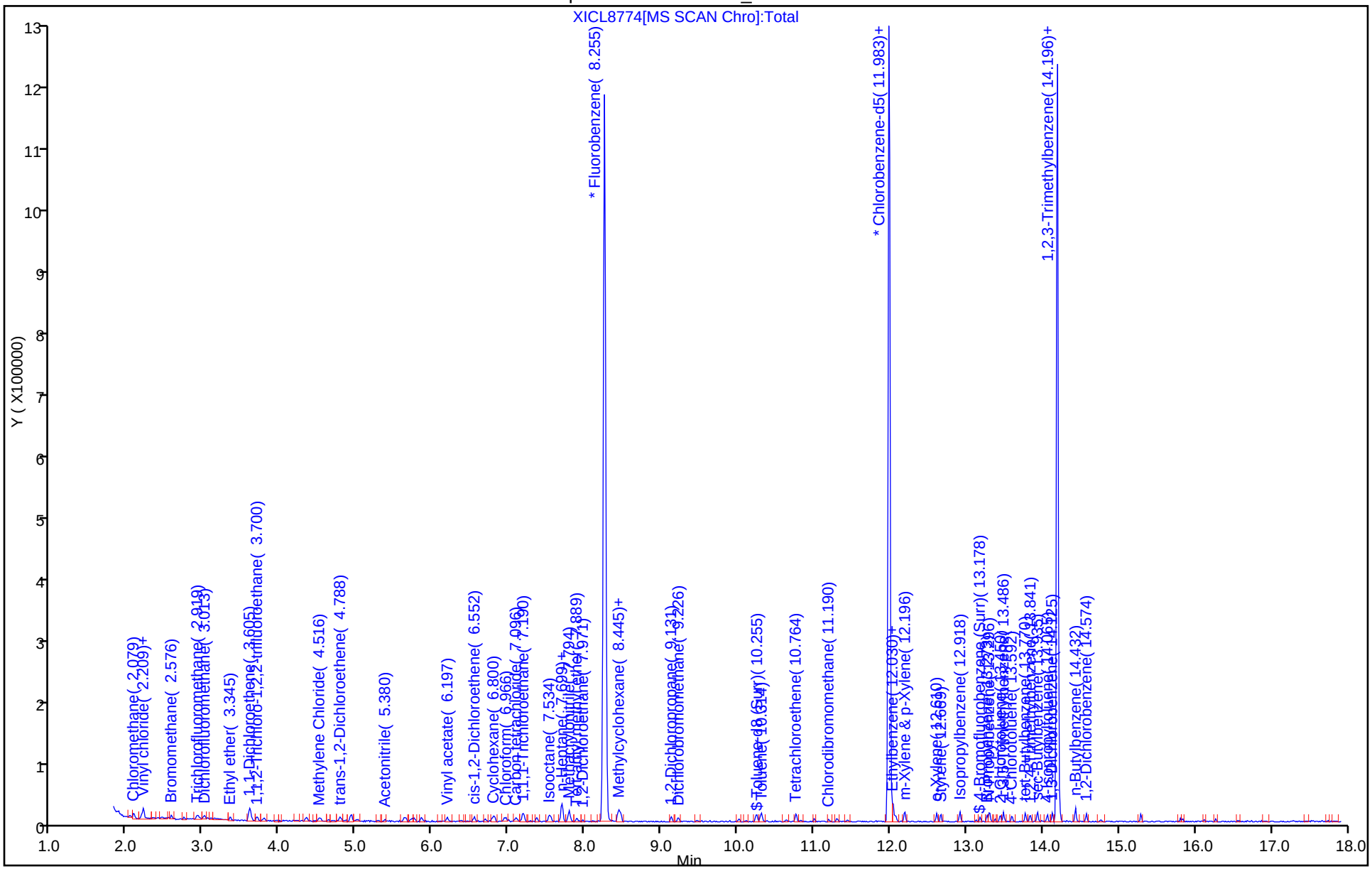
8260 Surr 25_00079	Amount Added:	0.20	Units: uL	
8260 NewWkMix_00236	Amount Added:	0.20	Units: uL	
I.S. Working_00153	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 18-Sep-2017 21:38:18 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8774.D

Injection Date:	14-Sep-2017 22:55:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	IC			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
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8775.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-Sep-2017 23:20:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011418-004
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 18-Sep-2017 21:38:20 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: hannj Date: 18-Sep-2017 19:14:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.889	-0.011	94	19649	2.50	2.40	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.043				ND	ND	
3 Chloromethane	50	2.091	2.091	0.000	98	28110	2.50	2.66	
4 Vinyl chloride	62	2.197	2.197	0.000	96	20455	2.50	2.46	
121 Butadiene	39	2.221	2.221	0.000	90	19600	2.50	2.83	
5 Bromomethane	94	2.576	2.576	0.000	81	6888	2.50	2.16	
6 Chloroethane	64		2.741				ND	ND	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	94	20487	2.50	2.40	
122 Dichlorofluoromethane	67	3.014	3.013	0.001	94	18833	2.50	2.35	
8 Ethyl ether	74	3.357	3.357	0.000	90	7765	2.50	2.41	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	59	15249	2.50	2.14	
11 Ethanol	45		3.605				ND	ND	
10 Carbon disulfide	76	3.605	3.605	0.000	99	61217	2.50	2.55	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.712	-0.012	89	12415	2.50	2.39	
13 Iodomethane	142		3.794				ND	ND	
14 Acrolein	56		4.138				ND	ND	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	90	13738	2.50	1.93	
16 Isopropyl alcohol	45	4.505	4.493	0.012	1	2573	25.0	41.9	
17 Methylene Chloride	84	4.528	4.528	0.000	93	17221	2.50	2.61	
18 Acetone	43		4.646				ND	ND	
19 trans-1,2-Dichloroethene	96	4.789	4.788	0.001	96	17082	2.50	2.32	
20 Methyl acetate	74		4.871				ND	ND	
21 Hexane	86	4.942	4.942	0.000	72	1560	2.50	0.6922	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	93	17338	2.50	1.68	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	6	3414	25.0	43.2	
24 Acetonitrile	41	5.392	5.380	0.012	72	8397	25.0	23.3	
25 Isopropyl ether	45	5.640	5.640	0.000	86	28614	2.50	3.76	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	92	18557	2.50	1.60	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	94	33289	2.50	2.59	
S 26 1,2-Dichloroethene, Total	96				0			4.29	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	97	23358	25.0	20.6	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	93	20824	2.50	3.65	
31 Vinyl acetate	43	6.208	6.197	0.011	45	13669	2.50	1.59	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	76	14018	2.50	1.98	
33 2,2-Dichloropropane	77		6.694				ND	ND	
34 Cyclohexane	84	6.800	6.800	0.000	87	19166	2.50	1.66	
35 Chlorobromomethane	128	6.824	6.824	0.000	68	5584	2.50	2.20	
36 Chloroform	83	6.954	6.954	0.000	91	28023	2.50	2.46	
37 Carbon tetrachloride	117	7.096	7.096	0.000	96	19482	2.50	2.27	
38 Tetrahydrofuran	71		7.167				ND	ND	
39 Ethyl acetate	45		7.179				ND	ND	
$ 41 Dibromofluoromethane (Surr	113		7.202				ND	ND	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	93	25114	2.50	2.52	
42 1,1-Dichloropropene	75	7.380	7.368	0.012	87	17008	2.50	1.81	
43 2-Butanone (MEK)	43		7.404				ND	ND	
124 Isooctane	57	7.534	7.546	-0.012	94	52027	2.50	1.72	
117 n-Heptane	43	7.699	7.699	0.000	62	21113	2.50	1.60	
44 Benzene	78	7.699	7.699	0.000	96	72234	2.50	2.52	
45 Propionitrile	54		7.770				ND	ND	
46 Methacrylonitrile	41	7.794	7.794	0.000	91	40763	25.0	20.7	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	90	13052	2.50	2.40	
48 Tert-amyl methyl ether	73	7.901	7.900	0.001	87	19432	2.50	1.84	
49 1,2-Dichloroethane	62	7.972	7.983	-0.011	90	16400	2.50	2.57	
50 Isobutyl alcohol	42	8.090	8.102	-0.012	84	3265	62.5	113.2	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	1390309	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.445	-0.012	91	25003	2.50	2.16	
53 Trichloroethene	95	8.469	8.468	0.001	97	18300	2.50	2.41	
54 n-Butanol	56	8.989	8.989	0.000	27	3559	62.5	213.6	
55 Dibromomethane	93	8.989	9.001	-0.012	85	4958	2.50	1.86	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	88	13234	2.50	2.11	
123 Ethyl acrylate	55		9.226				ND	ND	
57 Dichlorobromomethane	83	9.226	9.226	0.000	93	17355	2.50	2.31	
58 Methyl methacrylate	69		9.474				ND	ND	
59 1,4-Dioxane	88		9.498				ND	ND	
60 2-Chloroethyl vinyl ether	63		9.983				ND	ND	
61 cis-1,3-Dichloropropene	75	10.031	10.030	0.000	91	13327	2.50	4.10	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	92	46802	2.50	1.95	
63 Toluene	92	10.314	10.314	0.000	98	32225	2.50	2.31	
64 2-Nitropropane	43		10.622				ND	ND	
65 Tetrachloroethene	164	10.764	10.776	-0.012	92	12069	2.50	2.28	
66 4-Methyl-2-pentanone (MIBK	43		10.811				ND	ND	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	89	9835	2.50	3.84	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	82	6836	2.50	2.03	
69 Ethyl methacrylate	69		11.048				ND	ND	
70 Chlorodibromomethane	129	11.190	11.202	-0.012	84	7905	2.50	1.93	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	90	13609	2.50	2.00	
72 Ethylene Dibromide	107	11.450	11.439	0.011	82	6698	2.50	2.00	
S 73 1,3-Dichloropropene, Total	75				0			7.94	
118 n-Butyl acetate	43		11.640				ND	ND	
74 2-Hexanone	43		11.723				ND	ND	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	87	831976	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	63	25958	2.50	2.24	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.007	12.007	0.001	97	48946	2.50	2.84	
78 Ethylbenzene	91	12.042	12.042	0.000	99	77788	2.50	2.39	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.078	0.000	92	12260	2.50	2.39	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	96	21893	2.50	2.34	
82 o-Xylene	106	12.610	12.610	0.000	95	16147	2.50	2.30	
83 Styrene	104	12.669	12.669	0.000	93	24219	2.50	1.46	
84 Bromoform	173		12.681				ND	ND	
85 Isopropylbenzene	105	12.918	12.918	0.000	95	45175	2.50	1.50	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	82	14050	2.50	1.79	
87 Bromobenzene	156	13.273	13.273	0.000	90	11311	2.50	1.93	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	61930	2.50	1.65	
89 1,1,2,2-Tetrachloroethane	83		13.379				ND	ND	
90 2-Chlorotoluene	91	13.438	13.438	0.000	95	37611	2.50	1.75	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	93	36872	2.50	1.55	
92 1,2,3-Trichloropropane	110	13.498	13.497	0.001	51	1864	2.50	1.60	
94 Cyclohexanone	55		13.533				ND	ND	
93 trans-1,4-Dichloro-2-buten	53		13.533				ND	ND	
95 4-Chlorotoluene	91	13.592	13.592	0.000	95	37619	2.50	1.73	
96 tert-Butylbenzene	119	13.770	13.781	-0.011	95	31345	2.50	1.53	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	37525	2.50	1.59	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	58961	2.50	1.75	
99 4-Isopropyltoluene	119	14.066	14.065	0.001	97	39874	2.50	1.55	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	94	29612	2.50	2.41	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	365947	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.207	0.001	94	30945	2.50	2.63	
119 1,2,3-Trimethylbenzene	105	14.219	14.231	-0.012	93	50651	2.50	2.30	
120 Benzyl chloride	126	14.432	14.432	0.000	38	1957	2.50	1.57	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	10536	2.50	1.57	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	94	23674	2.50	2.36	
105 1,2-Dibromo-3-Chloropropan	157		15.272				ND	ND	
106 n-Nonyl Aldehyde	57		15.284				ND	ND	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	94	17721	2.50	2.25	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	91	8945	2.50	2.44	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	90	9477	2.50	1.67	
110 Naphthalene	128		16.113				ND	ND	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	93	8798	2.50	1.85	
S 112 Xylenes, Total	106				0			4.63	
S 113 Trihalomethanes, Total	1				0			6.71	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

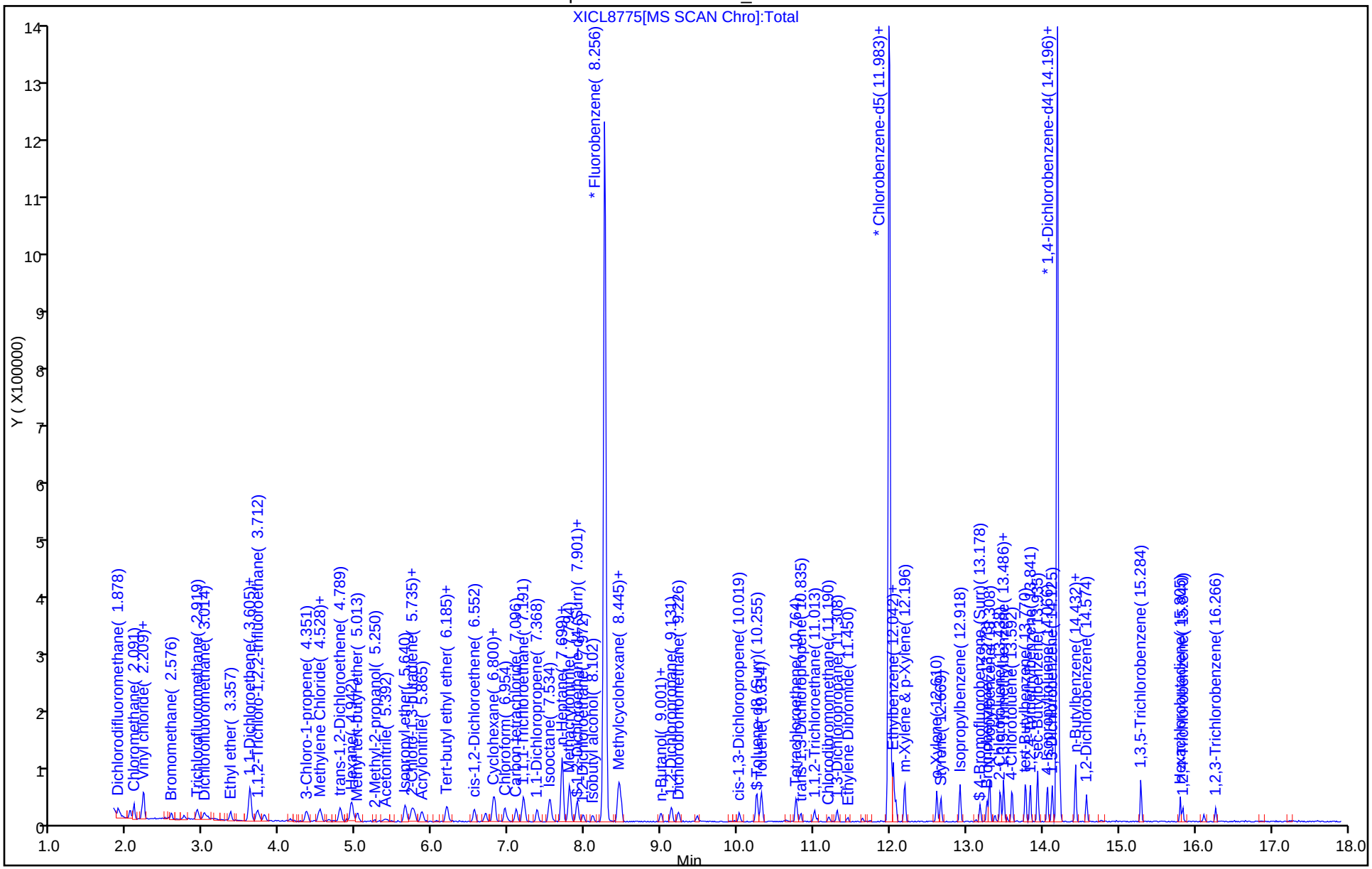
8260 Surr 25_00079	Amount Added: 0.50	Units: uL	
8260 NewWkMix_00236	Amount Added: 0.50	Units: uL	
I.S. Working_00153	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 18-Sep-2017 21:38:25 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8775.D

Injection Date:	14-Sep-2017 23:20:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	IC			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
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8776.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Sep-2017 23:45:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011418-005
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 18-Sep-2017 21:38:30 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: hannj Date: 18-Sep-2017 16:48:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.889	-0.011	97	43671	5.00	5.18	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.031	2.043	-0.012	72	18119	5.00	4.68	
3 Chloromethane	50	2.091	2.091	0.000	99	57460	5.00	5.28	
4 Vinyl chloride	62	2.197	2.197	0.000	97	46265	5.00	5.41	
121 Butadiene	39	2.209	2.221	-0.012	97	41302	5.00	5.78	
5 Bromomethane	94	2.576	2.576	0.000	90	19706	5.00	6.00	
6 Chloroethane	64	2.753	2.741	0.012	95	18039	5.00	5.73	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	95	48798	5.00	5.55	
122 Dichlorofluoromethane	67	3.014	3.013	0.001	96	45370	5.00	5.51	
8 Ethyl ether	74	3.357	3.357	0.000	93	16507	5.00	4.98	
10 Carbon disulfide	76	3.617	3.605	0.012	99	130976	5.00	5.29	
11 Ethanol	45	3.605	3.605	0.000	1	6005	200.0	222.0	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	93	37580	5.00	5.11	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.712	0.000	91	28293	5.00	5.30	
13 Iodomethane	142	3.795	3.794	0.001	97	44647	5.00	4.83	
14 Acrolein	56	4.138	4.138	0.000	95	9150	25.0	29.4	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	90	31725	5.00	4.33	
16 Isopropyl alcohol	45	4.493	4.493	0.000	95	5838	50.0	58.0	
17 Methylene Chloride	84	4.528	4.528	0.000	96	36691	5.00	5.41	
18 Acetone	43	4.647	4.646	0.001	34	5907	5.00	5.99	
19 trans-1,2-Dichloroethene	96	4.789	4.788	0.001	98	37555	5.00	4.94	
20 Methyl acetate	74	4.883	4.871	0.012	95	2992	25.0	23.3	
21 Hexane	86	4.954	4.942	0.012	89	8913	5.00	3.84	
22 Methyl tert-butyl ether	73	5.025	5.013	0.012	1	45361	5.00	4.27	
23 2-Methyl-2-propanol	59	5.250	5.238	0.012	91	8996	50.0	60.9	
24 Acetonitrile	41	5.392	5.380	0.012	89	17213	50.0	46.3	
25 Isopropyl ether	45	5.641	5.640	0.001	88	67598	5.00	5.53	
27 2-Chloro-1,3-butadiene	53	5.735	5.723	0.012	89	49398	5.00	4.13	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	97	68940	5.00	5.21	
S 26 1,2-Dichloroethene, Total	96				0			9.81	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	96	54652	50.0	46.7	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	92	54412	5.00	5.61	
31 Vinyl acetate	43	6.197	6.197	0.000	96	35515	5.00	4.02	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	78	35562	5.00	4.87	
33 2,2-Dichloropropane	77	6.694	6.694	0.000	93	33618	5.00	5.04	
34 Cyclohexane	84	6.800	6.800	0.000	91	50697	5.00	4.27	
35 Chlorobromomethane	128	6.824	6.824	0.000	94	13501	5.00	5.16	
36 Chloroform	83	6.954	6.954	0.000	93	62437	5.00	5.33	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	44154	5.00	5.00	
38 Tetrahydrofuran	71		7.167				ND	ND	
39 Ethyl acetate	45	7.191	7.179	0.012	96	2994	10.0	8.17	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	96	50143	5.00	4.89	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	91	31171	5.00	5.41	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	94	40092	5.00	4.14	
43 2-Butanone (MEK)	43	7.392	7.404	-0.012	29	5373	5.00	4.06	
124 Isooctane	57	7.546	7.546	0.000	96	133088	5.00	4.28	
44 Benzene	78	7.699	7.699	0.000	97	162978	5.00	5.52	
117 n-Heptane	43	7.699	7.699	0.000	66	60277	5.00	4.43	
45 Propionitrile	54	7.770	7.770	0.000	94	21487	50.0	49.2	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	101213	50.0	50.0	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	85	31217	5.00	5.58	
48 Tert-amyl methyl ether	73	7.901	7.900	0.001	90	46450	5.00	4.26	
49 1,2-Dichloroethane	62	7.983	7.983	0.000	96	33506	5.00	5.09	
50 Isobutyl alcohol	42	8.102	8.102	0.000	84	6666	125.0	149.8	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	1432131	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.445	0.000	91	58165	5.00	4.87	
53 Trichloroethene	95	8.469	8.468	0.001	97	40641	5.00	5.20	
54 n-Butanol	56	8.989	8.989	0.000	46	5662	125.0	232.9	
55 Dibromomethane	93	9.001	9.001	0.000	91	13155	5.00	4.80	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	91	29876	5.00	4.62	
57 Dichlorobromomethane	83	9.226	9.226	0.000	97	36912	5.00	4.78	
123 Ethyl acrylate	55	9.226	9.226	0.000	1	12012	5.00	5.98	
58 Methyl methacrylate	69	9.474	9.474	0.000	89	13882	10.0	11.6	
59 1,4-Dioxane	88		9.498				ND	ND	
60 2-Chloroethyl vinyl ether	63		9.983				ND	ND	
61 cis-1,3-Dichloropropene	75	10.019	10.030	-0.011	95	30861	5.00	5.81	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	94	112092	5.00	4.52	
63 Toluene	92	10.315	10.314	0.001	98	82127	5.00	4.99	
64 2-Nitropropane	43	10.610	10.622	-0.012	89	5429	10.0	8.01	
65 Tetrachloroethene	164	10.764	10.776	-0.012	94	29170	5.00	5.32	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.811	-0.011	88	9213	5.00	5.92	
67 trans-1,3-Dichloropropene	75	10.823	10.835	-0.012	93	25239	5.00	5.80	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	88	17805	5.00	5.12	
69 Ethyl methacrylate	69	11.048	11.048	0.000	7	11899	5.00	6.35	
70 Chlorodibromomethane	129	11.202	11.202	0.000	89	18901	5.00	4.47	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	91	33076	5.00	4.70	
72 Ethylene Dibromide	107	11.439	11.439	0.000	96	15452	5.00	4.47	
S 73 1,3-Dichloropropene, Total	75				0			11.6	
118 n-Butyl acetate	43	11.640	11.640	0.000	75	14664	5.00	10.4	
74 2-Hexanone	43	11.723	11.723	0.000	13	5071	5.00	6.13	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	87	859973	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	87	58929	5.00	4.92	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.007	12.007	0.001	97	96492	5.00	5.41	
78 Ethylbenzene	91	12.042	12.042	0.000	98	180053	5.00	5.35	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.078	0.000	92	27919	5.00	5.26	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	97	54237	5.00	4.83	
82 o-Xylene	106	12.610	12.610	0.000	96	40664	5.00	4.33	
83 Styrene	104	12.669	12.669	0.000	94	70338	5.00	4.11	
84 Bromoform	173	12.681	12.681	0.000	93	8789	5.00	4.35	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	125035	5.00	3.96	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	86	33832	5.00	4.12	
87 Bromobenzene	156	13.273	13.273	0.000	93	27211	5.00	4.43	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	169633	5.00	4.31	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	31	22489	5.00	5.12	
90 2-Chlorotoluene	91	13.438	13.438	0.000	97	99843	5.00	4.45	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	107072	5.00	4.31	
92 1,2,3-Trichloropropane	110	13.498	13.497	0.001	82	6318	5.00	5.20	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	70	4595	5.00	5.78	
94 Cyclohexanone	55	13.533	13.533	0.000	1	3922	50.0	65.0	
95 4-Chlorotoluene	91	13.592	13.592	0.000	97	102962	5.00	4.54	
96 tert-Butylbenzene	119	13.782	13.781	0.001	95	86103	5.00	4.03	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	107827	5.00	4.37	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	165108	5.00	4.69	
99 4-Isopropyltoluene	119	14.066	14.065	0.001	96	112673	5.00	4.19	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	68100	5.00	5.30	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	382593	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.207	0.001	95	66129	5.00	5.37	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	95	117077	5.00	5.07	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	29785	5.00	4.25	
120 Benzyl chloride	126	14.432	14.432	0.000	89	5279	5.00	4.05	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	97	51026	5.00	4.87	
105 1,2-Dibromo-3-Chloropropan	157	15.273	15.272	0.000	1	907	5.00	4.81	M
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	39574	5.00	4.80	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	49	6896	5.00	6.39	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	94	20342	5.00	5.32	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	91	25734	5.00	4.35	
110 Naphthalene	128	16.113	16.113	0.000	94	29975	5.00	5.38	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	93	20364	5.00	4.10	
S 112 Xylenes, Total	106				0			9.16	
S 113 Trihalomethanes, Total	1				0			18.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

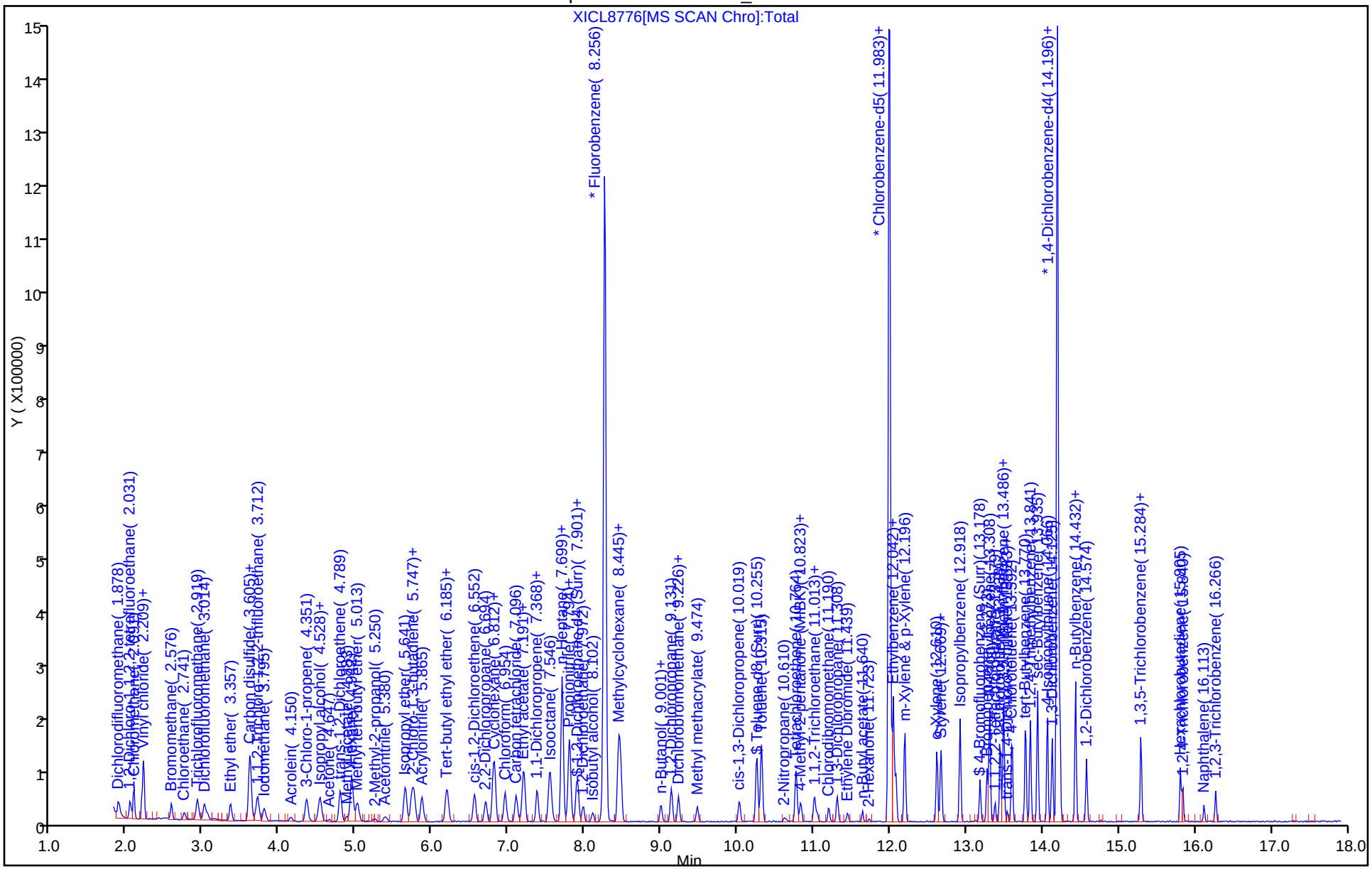
8260 Surr 25_00079	Amount Added: 1.00	Units: uL	
8260 NewWkMix_00236	Amount Added: 1.00	Units: uL	
I.S. Working_00153	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 18-Sep-2017 21:38:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8776.D

Injection Date:	14-Sep-2017 23:45:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	IC			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		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

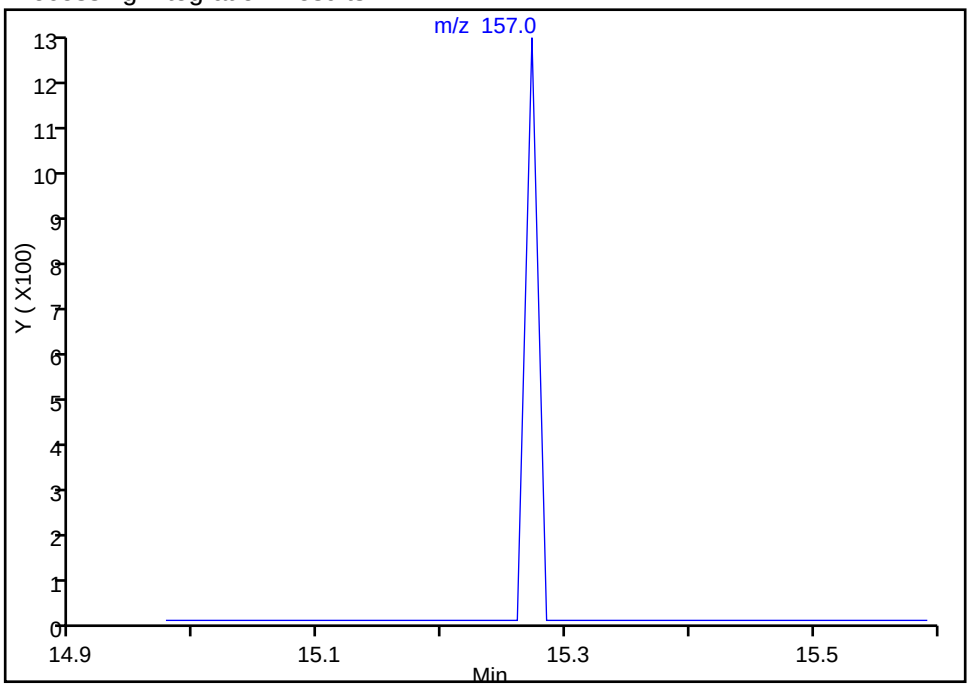
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Injection Date: 14-Sep-2017 23:45:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

105 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

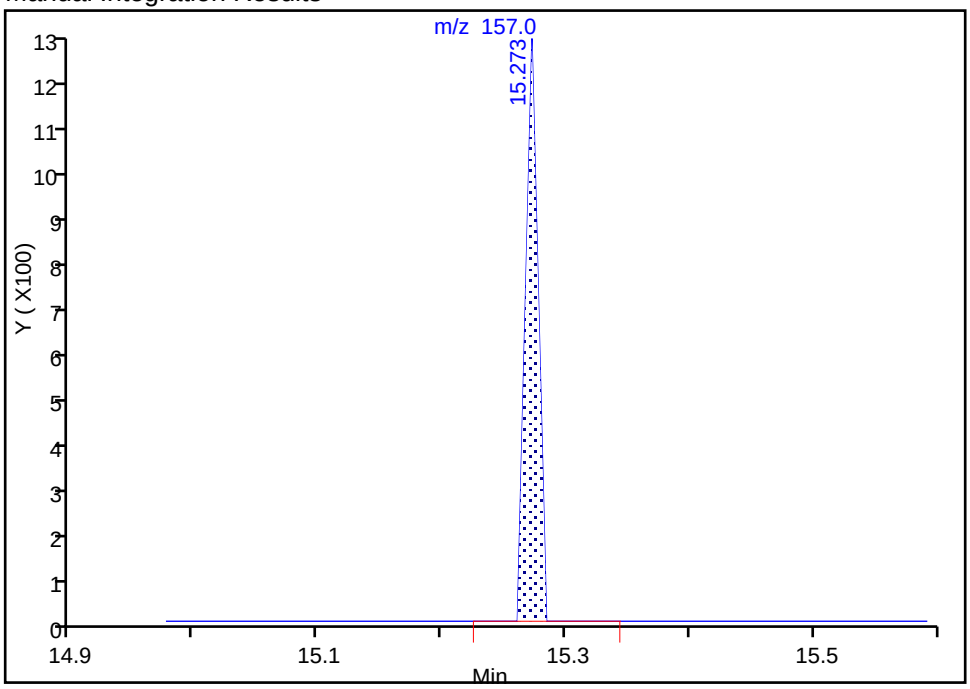
Not Detected
Expected RT: 15.27

Processing Integration Results



Manual Integration Results

RT: 15.27
Area: 907
Amount: 4.811812
Amount Units: ug/l



Reviewer: hannj, 18-Sep-2017 16:47:57
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

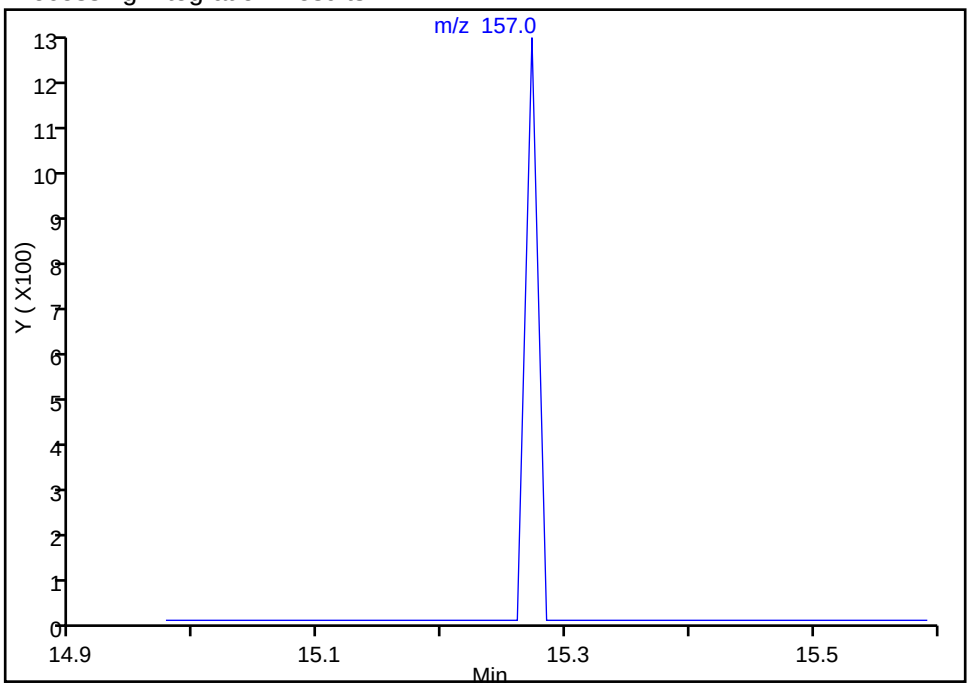
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Injection Date: 14-Sep-2017 23:45:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

105 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

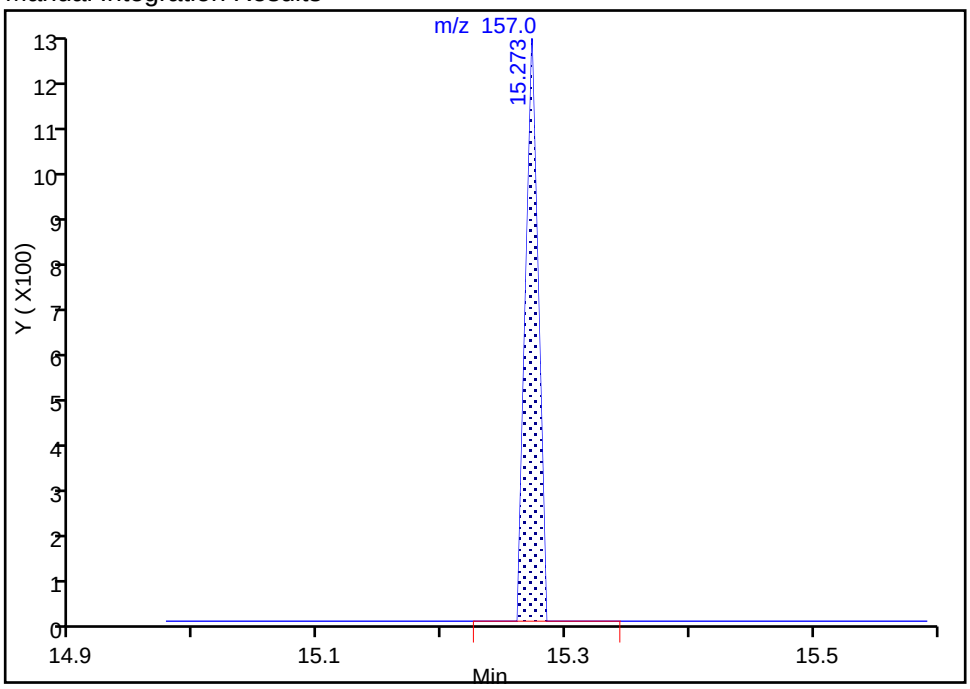
Not Detected
Expected RT: 15.27

Processing Integration Results



Manual Integration Results

RT: 15.27
Area: 907
Amount: 4.811812
Amount Units: ug/l



Reviewer: hannj, 18-Sep-2017 16:48:05
Audit Action: Manually Integrated Audit Reason: Missed Peak

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8777.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 15-Sep-2017 00:10:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011418-006
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 18-Sep-2017 21:38:41 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: hannj Date: 18-Sep-2017 16:53:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	98	92170	10.0	10.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	98	36501	10.0	9.05	
3 Chloromethane	50	2.091	2.091	0.000	99	121870	10.0	10.8	
4 Vinyl chloride	62	2.197	2.197	0.000	97	92075	10.0	10.3	
121 Butadiene	39	2.209	2.221	-0.012	89	79037	10.0	10.6	
5 Bromomethane	94	2.576	2.576	0.000	92	33196	10.0	9.72	
6 Chloroethane	64	2.741	2.741	0.000	97	35168	10.0	10.7	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	92319	10.0	10.1	
122 Dichlorofluoromethane	67	3.014	3.013	0.001	97	86182	10.0	10.0	
8 Ethyl ether	74	3.357	3.357	0.000	91	32928	10.0	9.54	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	95	74958	10.0	9.80	
11 Ethanol	45	3.605	3.605	0.000	27	11961	400.0	354.1	
10 Carbon disulfide	76	3.617	3.605	0.012	99	265431	10.0	10.3	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.712	0.000	93	56216	10.0	10.1	
13 Iodomethane	142	3.795	3.794	0.000	97	92137	10.0	9.57	
14 Acrolein	56	4.138	4.138	0.000	97	20083	50.0	46.7	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	71062	10.0	9.32	
16 Isopropyl alcohol	45	4.504	4.493	0.011	25	13717	100.0	95.1	
17 Methylene Chloride	84	4.528	4.528	0.000	92	72979	10.0	10.3	
18 Acetone	43	4.646	4.646	0.000	67	10578	10.0	10.3	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	99	78970	10.0	9.98	
20 Methyl acetate	74	4.883	4.871	0.012	98	9469	50.0	51.9	
21 Hexane	86	4.954	4.942	0.012	90	23576	10.0	9.76	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	1	104077	10.0	9.42	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	90	20233	100.0	94.6	
24 Acetonitrile	41	5.392	5.380	0.012	99	37259	100.0	96.3	
25 Isopropyl ether	45	5.640	5.640	0.000	91	164966	10.0	9.73	
27 2-Chloro-1,3-butadiene	53	5.735	5.723	0.012	92	118168	10.0	9.48	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	96	144146	10.0	10.5	
S 26 1,2-Dichloroethene, Total	96				0			20.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	100	121334	100.0	99.7	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	95	128183	10.0	9.68	
31 Vinyl acetate	43	6.208	6.197	0.011	97	79999	10.0	8.70	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	78	76179	10.0	10.0	
33 2,2-Dichloropropane	77	6.705	6.694	0.011	93	68146	10.0	9.81	
34 Cyclohexane	84	6.800	6.800	0.000	90	119299	10.0	9.66	
35 Chlorobromomethane	128	6.824	6.824	0.000	97	28735	10.0	10.6	
36 Chloroform	83	6.954	6.954	0.000	93	125167	10.0	10.3	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	90861	10.0	9.88	
38 Tetrahydrofuran	71	7.167	7.167	0.000	38	4961	20.0	21.1	
39 Ethyl acetate	45	7.179	7.179	0.000	96	10120	20.0	21.8	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.202	-0.011	91	57628	10.0	9.60	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	97	108030	10.0	10.1	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	95	96690	10.0	9.58	
43 2-Butanone (MEK)	43	7.404	7.404	0.000	97	13144	10.0	9.54	
124 Isooctane	57	7.546	7.546	0.000	96	318404	10.0	9.84	
117 n-Heptane	43	7.699	7.699	0.000	69	145665	10.0	10.3	
44 Benzene	78	7.699	7.699	0.000	96	340714	10.0	11.1	
45 Propionitrile	54	7.770	7.770	0.000	96	46107	100.0	101.4	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	215109	100.0	102.0	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	90	56253	10.0	9.66	
48 Tert-amyl methyl ether	73	7.901	7.900	0.001	93	104351	10.0	9.20	
49 1,2-Dichloroethane	62	7.983	7.983	0.000	96	69594	10.0	10.2	
50 Isobutyl alcohol	42	8.102	8.102	0.000	85	14557	250.0	231.0	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	1490799	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.445	0.000	90	123648	10.0	9.95	
53 Trichloroethene	95	8.469	8.468	0.000	98	89064	10.0	10.9	
54 n-Butanol	56	8.989	8.989	0.000	85	12855	250.0	297.5	
55 Dibromomethane	93	9.001	9.001	0.000	93	29101	10.0	10.2	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	92	64396	10.0	9.57	
123 Ethyl acrylate	55	9.226	9.226	0.000	55	28925	10.0	9.24	
57 Dichlorobromomethane	83	9.226	9.226	0.000	98	78585	10.0	9.78	
58 Methyl methacrylate	69	9.474	9.474	0.000	88	33604	20.0	18.4	
59 1,4-Dioxane	88	9.510	9.498	0.012	1	4783	200.0	202.0	M
60 2-Chloroethyl vinyl ether	63		9.983				ND	ND	
61 cis-1,3-Dichloropropene	75	10.030	10.030	0.000	95	69228	10.0	9.36	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	94	236738	10.0	8.87	
63 Toluene	92	10.314	10.314	0.000	97	191636	10.0	10.3	
64 2-Nitropropane	43	10.610	10.622	-0.012	96	11200	20.0	15.2	
65 Tetrachloroethene	164	10.764	10.776	-0.012	96	58981	10.0	10.0	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	96	23242	10.0	9.70	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	58827	10.0	9.62	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	90	36586	10.0	9.78	
69 Ethyl methacrylate	69	11.048	11.048	0.000	47	30779	10.0	9.33	
70 Chlorodibromomethane	129	11.202	11.202	0.000	87	42567	10.0	9.36	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	92	69967	10.0	9.23	
72 Ethylene Dibromide	107	11.450	11.439	0.011	93	34361	10.0	9.24	
S 73 1,3-Dichloropropene, Total	75				0			19.0	
118 n-Butyl acetate	43	11.640	11.640	0.000	97	31388	10.0	12.6	
74 2-Hexanone	43	11.723	11.723	0.000	95	13881	10.0	9.44	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	87	925390	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	93	131344	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.007	12.007	0.001	97	204481	10.0	10.7	
78 Ethylbenzene	91	12.042	12.042	0.000	98	386099	10.0	10.7	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.078	0.000	95	56921	10.0	9.96	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	96	125290	10.0	9.73	
82 o-Xylene	106	12.610	12.610	0.000	97	102667	10.0	8.96	
83 Styrene	104	12.669	12.669	0.000	95	182661	10.0	9.92	
84 Bromoform	173	12.681	12.681	0.000	95	19551	10.0	9.30	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	314206	10.0	9.56	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	73376	10.0	8.58	
87 Bromobenzene	156	13.273	13.273	0.000	94	60519	10.0	9.47	
88 N-Propylbenzene	91	13.308	13.308	0.000	99	416009	10.0	10.2	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	93	45456	10.0	9.93	
90 2-Chlorotoluene	91	13.450	13.438	0.012	96	224633	10.0	9.62	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	95	263776	10.0	10.2	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	82	12207	10.0	9.64	
94 Cyclohexanone	55	13.533	13.533	0.000	71	8406	100.0	97.6	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	1	9777	10.0	9.20	
95 4-Chlorotoluene	91	13.604	13.592	0.012	98	230843	10.0	9.78	
96 tert-Butylbenzene	119	13.781	13.781	0.000	94	216691	10.0	9.73	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	260427	10.0	10.1	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	376049	10.0	10.3	
99 4-Isopropyltoluene	119	14.065	14.065	0.000	96	270553	10.0	9.67	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	136292	10.0	10.2	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	97	398409	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	95	133587	10.0	10.4	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	97	245700	10.0	10.2	
120 Benzyl chloride	126	14.432	14.432	0.000	89	12044	10.0	8.87	
103 n-Butylbenzene	134	14.432	14.432	0.000	96	71882	10.0	9.85	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	97	110652	10.0	10.1	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	85	4499	10.0	10.6	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	38	12091	10.0	8.13	
107 1,3,5-Trichlorobenzene	180	15.296	15.284	0.012	96	86464	10.0	10.1	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	40553	10.0	10.2	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	57139	10.0	9.27	
110 Naphthalene	128	16.113	16.113	0.000	96	76858	10.0	9.35	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	51759	10.0	10.0	
S 112 Xylenes, Total	106				0			18.7	
S 113 Trihalomethanes, Total	1				0			38.7	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

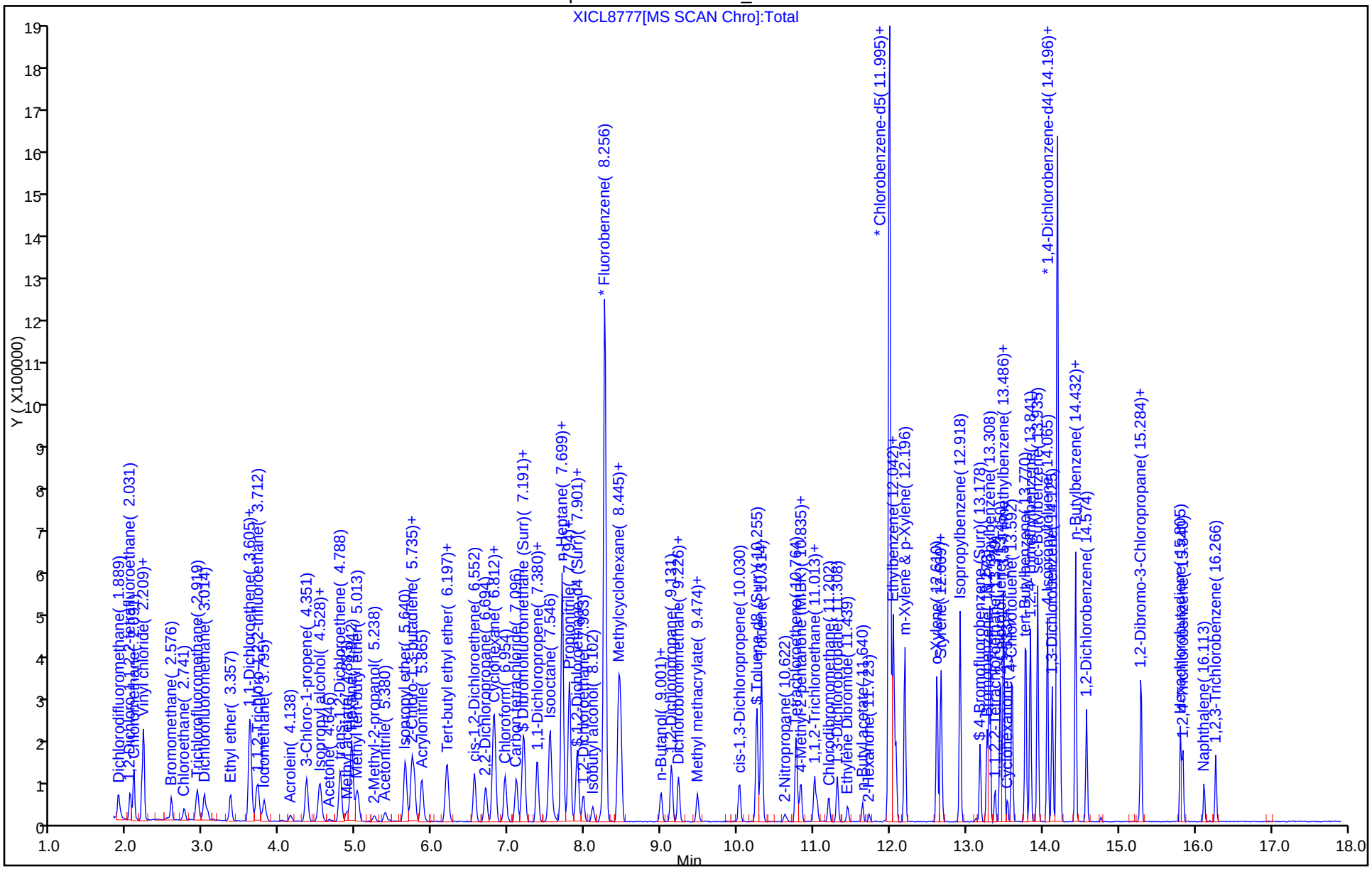
8260 Surr 25_00079	Amount Added: 2.00	Units: uL	
8260 NewWkMix_00236	Amount Added: 2.00	Units: uL	
I.S. Working_00153	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 18-Sep-2017 21:38:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8777.D

Injection Date:	15-Sep-2017 00:10:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

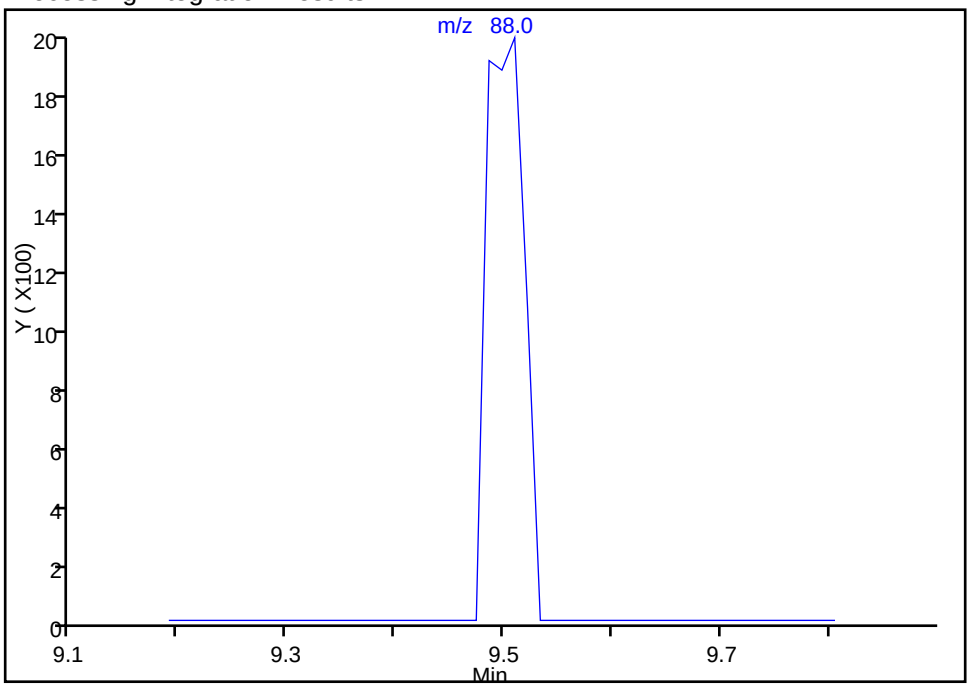
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Injection Date: 15-Sep-2017 00:10:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

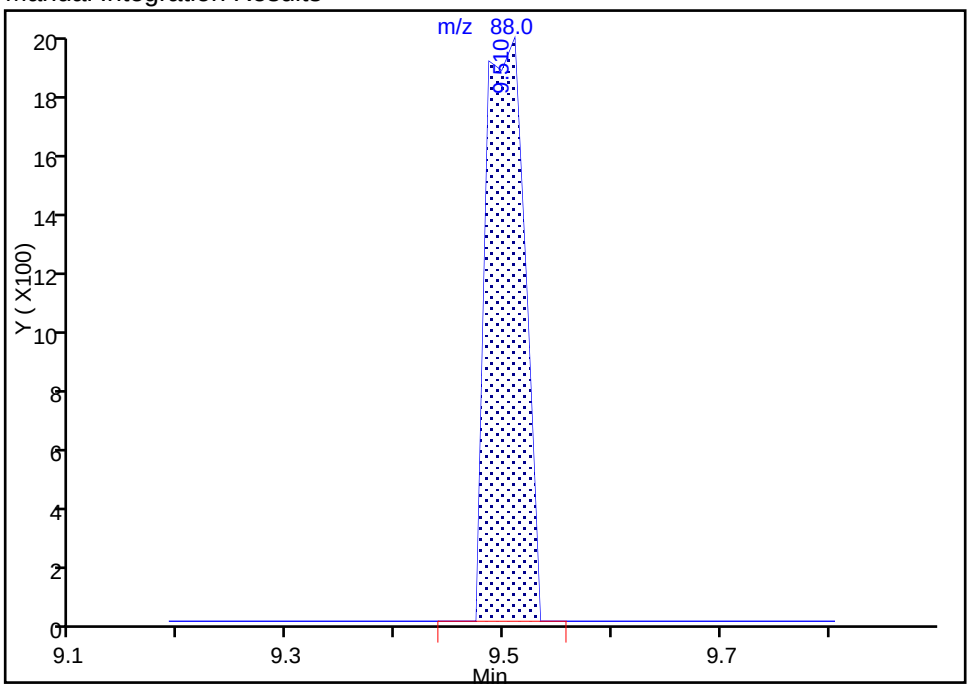
Not Detected
Expected RT: 9.50

Processing Integration Results



Manual Integration Results

RT: 9.51
Area: 4783
Amount: 201.9684
Amount Units: ug/l



Reviewer: hannj, 18-Sep-2017 16:53:00
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

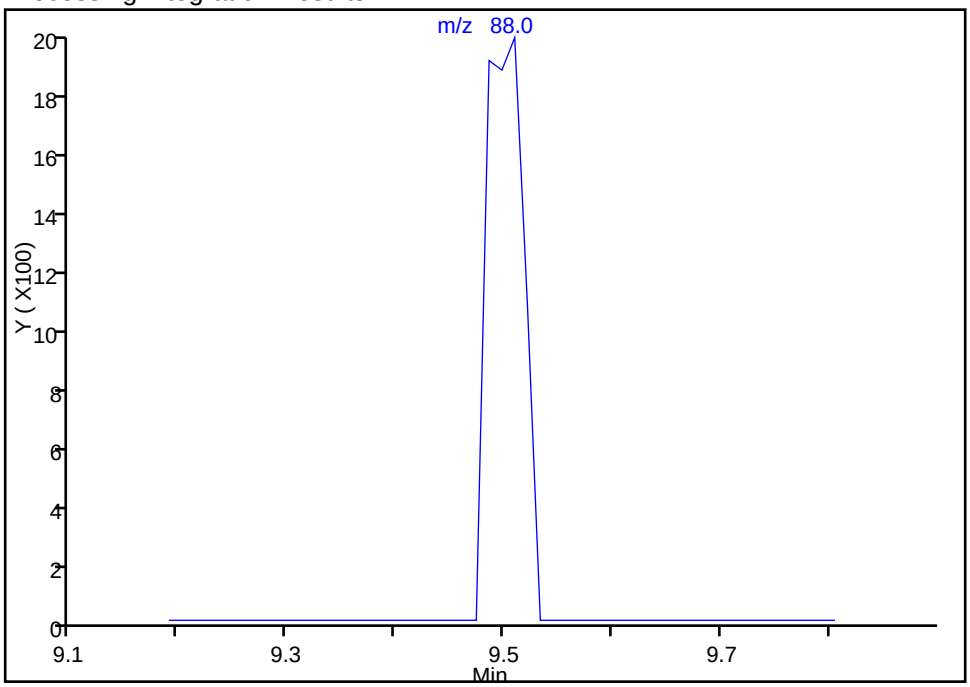
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Injection Date: 15-Sep-2017 00:10:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

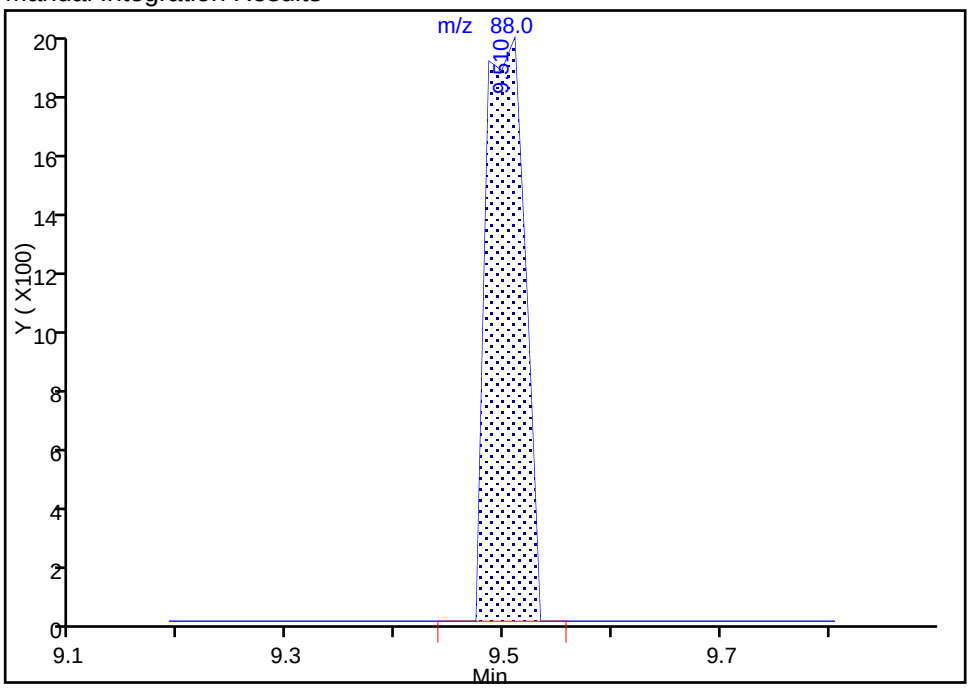
Not Detected
Expected RT: 9.50

Processing Integration Results



Manual Integration Results

RT: 9.51
Area: 4783
Amount: 201.9684
Amount Units: ug/l



Reviewer: hannj, 18-Sep-2017 16:53:13
Audit Action: Manually Integrated Audit Reason: Missed Peak

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8778.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 15-Sep-2017 00:35:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011418-007
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 18-Sep-2017 21:38:49 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: hannj Date: 18-Sep-2017 16:55:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	99	178308	20.0	20.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	74245	20.0	18.1	
3 Chloromethane	50	2.091	2.091	0.000	99	230416	20.0	20.0	
4 Vinyl chloride	62	2.197	2.197	0.000	98	184101	20.0	20.4	
121 Butadiene	39	2.221	2.221	0.000	88	159396	20.0	21.1	
5 Bromomethane	94	2.576	2.576	0.000	91	74412	20.0	21.4	
6 Chloroethane	64	2.753	2.741	0.012	98	70341	20.0	21.1	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	191003	20.0	20.5	
122 Dichlorofluoromethane	67	3.014	3.013	0.001	97	170493	20.0	19.6	
8 Ethyl ether	74	3.357	3.357	0.000	93	68468	20.0	19.5	
10 Carbon disulfide	76	3.617	3.605	0.012	99	522123	20.0	19.9	
11 Ethanol	45	3.605	3.605	0.000	28	31629	800.0	797.8	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	95	152118	20.0	19.6	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.712	0.000	94	112658	20.0	19.9	
13 Iodomethane	142	3.795	3.794	0.001	97	192389	20.0	19.7	
14 Acrolein	56	4.150	4.138	0.012	98	47968	100.0	91.3	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	92	151613	20.0	19.6	
16 Isopropyl alcohol	45	4.505	4.493	0.012	93	33075	200.0	186.5	
17 Methylene Chloride	84	4.528	4.528	0.000	94	142932	20.0	19.9	
18 Acetone	43	4.647	4.646	0.001	99	20413	20.0	19.6	
19 trans-1,2-Dichloroethene	96	4.789	4.788	0.001	99	157583	20.0	19.6	
20 Methyl acetate	74	4.871	4.871	0.000	96	20579	100.0	100.6	
21 Hexane	86	4.942	4.942	0.000	88	48783	20.0	19.9	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	1	214132	20.0	19.1	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	93	49252	200.0	182.3	
24 Acetonitrile	41	5.380	5.380	0.000	99	78797	200.0	200.5	
25 Isopropyl ether	45	5.641	5.640	0.000	93	369376	20.0	18.6	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	91	254453	20.0	20.1	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	96	283019	20.0	20.2	
S 26 1,2-Dichloroethene, Total	96				0			39.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	99	245045	200.0	198.1	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	96	286058	20.0	18.4	
31 Vinyl acetate	43	6.208	6.197	0.011	98	183196	20.0	19.6	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	79	154739	20.0	20.1	
33 2,2-Dichloropropane	77	6.705	6.694	0.011	93	138787	20.0	19.7	
34 Cyclohexane	84	6.800	6.800	0.000	91	259462	20.0	20.7	
35 Chlorobromomethane	128	6.824	6.824	0.000	96	55071	20.0	19.9	
36 Chloroform	83	6.954	6.954	0.000	94	241202	20.0	19.5	
37 Carbon tetrachloride	117	7.096	7.096	0.000	98	181565	20.0	19.4	
38 Tetrahydrofuran	71	7.167	7.167	0.000	84	11413	40.0	37.1	
39 Ethyl acetate	45	7.179	7.179	0.000	97	20820	40.0	42.0	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	217587	20.0	20.1	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	93	120704	20.0	19.8	
42 1,1-Dichloropropene	75	7.380	7.368	0.012	96	202035	20.0	19.7	
43 2-Butanone (MEK)	43	7.404	7.404	0.000	98	27552	20.0	19.7	
124 Isooctane	57	7.546	7.546	0.000	96	670602	20.0	20.4	
44 Benzene	78	7.699	7.699	0.000	96	662526	20.0	21.2	
117 n-Heptane	43	7.699	7.699	0.000	70	296883	20.0	20.6	
45 Propionitrile	54	7.770	7.770	0.000	95	94745	200.0	205.2	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	436485	200.0	203.8	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	92	112806	20.0	19.1	
48 Tert-amyl methyl ether	73	7.901	7.900	0.001	96	218542	20.0	19.0	
49 1,2-Dichloroethane	62	7.972	7.983	-0.011	97	136987	20.0	19.7	
50 Isobutyl alcohol	42	8.102	8.102	0.000	90	36247	500.0	456.0	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	1514298	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.445	0.000	90	256919	20.0	20.4	
53 Trichloroethene	95	8.469	8.468	0.001	99	170618	20.0	20.6	
54 n-Butanol	56	8.989	8.989	0.000	97	33407	500.0	483.4	
55 Dibromomethane	93	9.001	9.001	0.000	95	57637	20.0	19.9	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	92	130220	20.0	19.0	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	162000	20.0	19.8	
123 Ethyl acrylate	55	9.226	9.226	0.000	60	73320	20.0	17.8	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	84649	40.0	36.0	
59 1,4-Dioxane	88	9.498	9.498	0.000	1	11520	400.0	378.6	M
60 2-Chloroethyl vinyl ether	63	9.971	9.983	-0.012	1	3239	20.0	9.77	
61 cis-1,3-Dichloropropene	75	10.031	10.030	0.001	95	163328	20.0	18.1	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	94	544644	20.0	19.9	
63 Toluene	92	10.315	10.314	0.000	98	400274	20.0	20.4	
64 2-Nitropropane	43	10.622	10.622	0.000	94	26591	40.0	34.5	
65 Tetrachloroethene	164	10.764	10.776	-0.012	95	115918	20.0	19.2	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	96	53752	20.0	18.0	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	94	135709	20.0	18.5	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	89	71745	20.0	18.7	
69 Ethyl methacrylate	69	11.048	11.048	0.000	66	80587	20.0	17.3	
70 Chlorodibromomethane	129	11.202	11.202	0.000	90	86537	20.0	18.6	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	92	149123	20.0	19.2	
72 Ethylene Dibromide	107	11.439	11.439	0.000	99	71058	20.0	18.7	
S 73 1,3-Dichloropropene, Total	75				0			36.6	
118 n-Butyl acetate	43	11.640	11.640	0.000	96	76988	20.0	18.9	
74 2-Hexanone	43	11.723	11.723	0.000	97	36976	20.0	18.2	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	87	947818	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	94	269899	20.0	20.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.007	12.007	0.001	97	396925	20.0	20.2	
78 Ethylbenzene	91	12.042	12.042	0.000	98	756468	20.0	20.4	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.078	0.000	94	110585	20.0	18.9	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	97	270669	20.0	19.9	
82 o-Xylene	106	12.610	12.610	0.000	97	237415	20.0	19.1	
83 Styrene	104	12.669	12.669	0.000	94	392160	20.0	20.8	
84 Bromoform	173	12.681	12.681	0.000	95	41245	20.0	19.4	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	678683	20.0	20.4	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	85	164293	20.0	19.0	
87 Bromobenzene	156	13.273	13.273	0.000	94	129994	20.0	20.1	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	862464	20.0	20.8	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	90485	20.0	19.5	
90 2-Chlorotoluene	91	13.450	13.438	0.012	96	479063	20.0	20.2	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	95	551165	20.0	21.0	
92 1,2,3-Trichloropropane	110	13.498	13.497	0.001	83	25826	20.0	20.1	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	84	24080	20.0	18.8	
94 Cyclohexanone	55	13.533	13.533	0.000	69	17859	200.0	167.0	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	478882	20.0	20.0	
96 tert-Butylbenzene	119	13.782	13.781	0.001	94	464839	20.0	20.6	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	541277	20.0	20.8	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	766073	20.0	20.6	
99 4-Isopropyltoluene	119	14.066	14.065	0.001	97	591686	20.0	20.9	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	271815	20.0	20.0	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	95	403776	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.207	0.001	95	262981	20.0	20.2	
119 1,2,3-Trimethylbenzene	105	14.219	14.231	-0.012	98	493788	20.0	20.3	
103 n-Butylbenzene	134	14.432	14.432	0.000	96	155282	20.0	21.0	
120 Benzyl chloride	126	14.432	14.432	0.000	89	27256	20.0	19.8	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	97	223406	20.0	20.2	
105 1,2-Dibromo-3-Chloropropan	157	15.273	15.272	0.000	81	10947	20.0	21.0	
107 1,3,5-Trichlorobenzene	180	15.296	15.284	0.012	96	184608	20.0	21.2	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	55	43149	20.0	18.9	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	97	84749	20.0	21.0	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	128807	20.0	20.6	
110 Naphthalene	128	16.113	16.113	0.000	97	188026	20.0	18.8	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	108626	20.0	20.7	
S 112 Xylenes, Total	106				0			39.0	
S 113 Trihalomethanes, Total	1				0			77.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

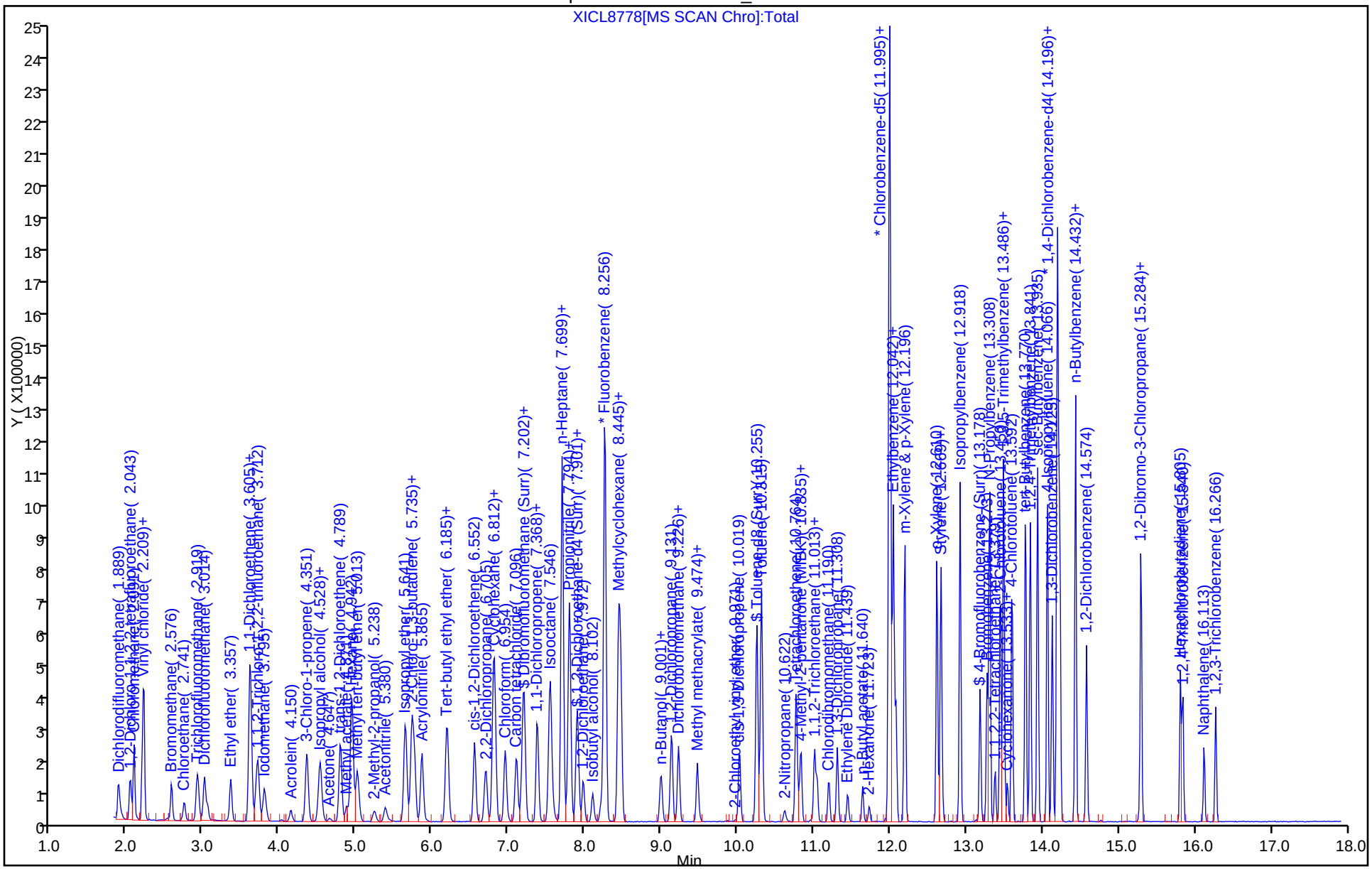
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8260 NewWkMix_00236	Amount Added: 4.00	Units: uL	
I.S. Working_00153	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 18-Sep-2017 21:38:54 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8778.D

Injection Date:	15-Sep-2017 00:35:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	IC			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		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

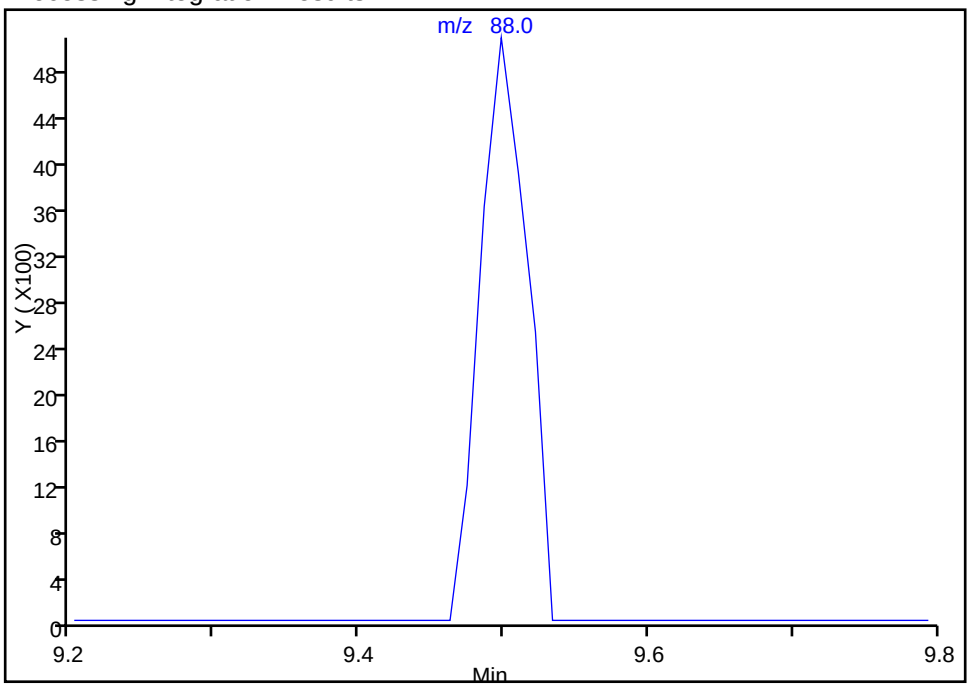
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Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

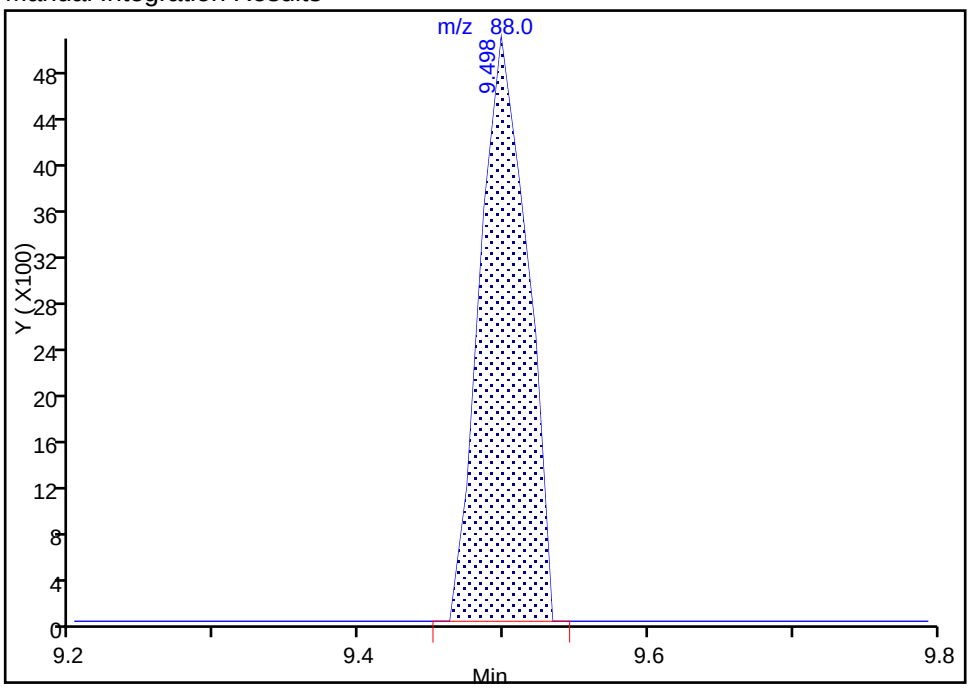
Not Detected
Expected RT: 9.50

Processing Integration Results



Manual Integration Results

RT: 9.50
Area: 11520
Amount: 378.5946
Amount Units: ug/l



Reviewer: hannj, 18-Sep-2017 16:54:34
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

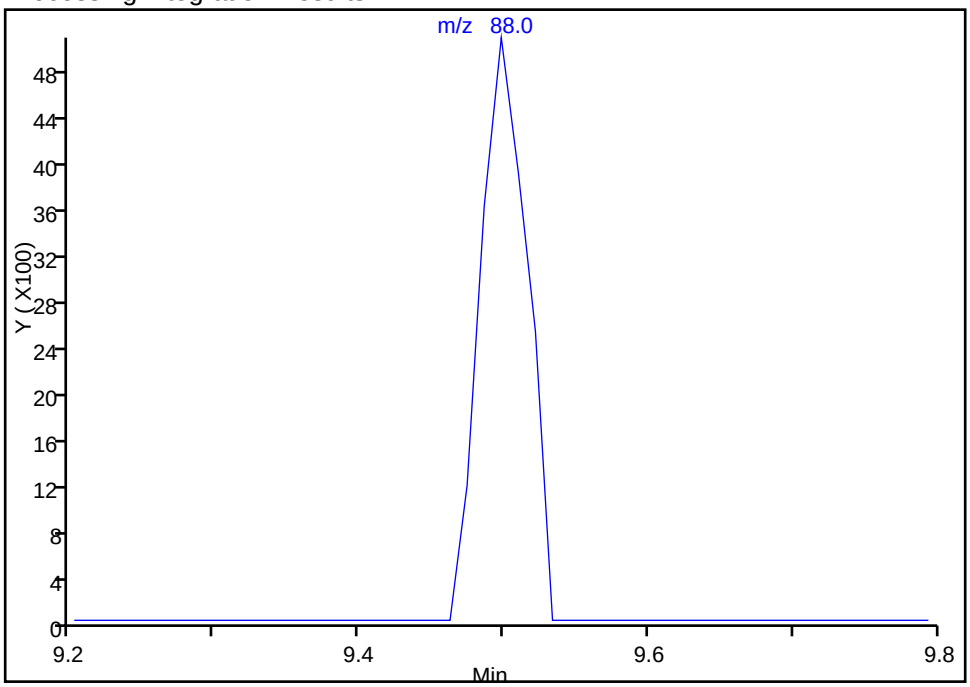
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Injection Date: 15-Sep-2017 00:35:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

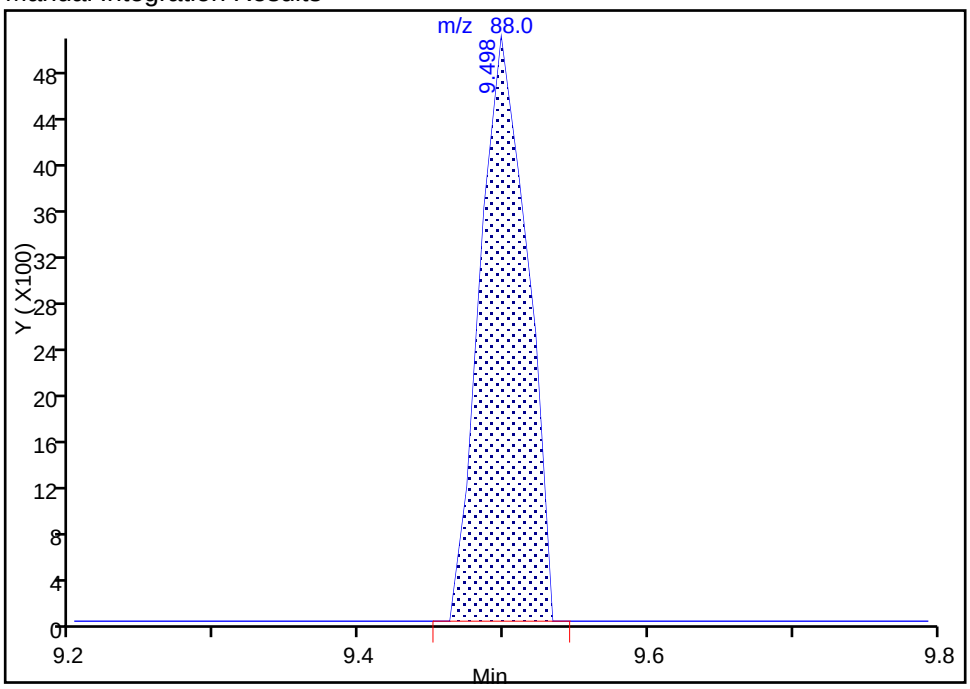
Not Detected
Expected RT: 9.50

Processing Integration Results



Manual Integration Results

RT: 9.50
Area: 11520
Amount: 378.5946
Amount Units: ug/l



Reviewer: hannj, 18-Sep-2017 16:54:42
Audit Action: Manually Integrated Audit Reason: Missed Peak

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8779.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 15-Sep-2017 01:00:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011418-008
Misc. Info.: ICIS
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 18-Sep-2017 21:43:32 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: hannj Date: 18-Sep-2017 21:43:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	99	476813	50.0	51.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	200091	50.0	46.6	
3 Chloromethane	50	2.091	2.091	0.000	99	604563	50.0	50.1	
4 Vinyl chloride	62	2.197	2.197	0.000	98	465546	50.0	49.1	
121 Butadiene	39	2.221	2.221	0.000	89	406962	50.0	51.4	
5 Bromomethane	94	2.576	2.576	0.000	92	171737	50.0	47.2	
6 Chloroethane	64	2.741	2.741	0.000	99	162433	50.0	46.5	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	486599	50.0	49.9	
122 Dichlorofluoromethane	67	3.013	3.013	0.000	97	444474	50.0	48.7	
8 Ethyl ether	74	3.357	3.357	0.000	92	184229	50.0	50.1	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1387016	50.0	50.5	
11 Ethanol	45	3.605	3.605	0.000	26	87940	2000.0	1988.0	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	97	411917	50.0	50.6	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.712	0.000	94	289107	50.0	48.8	
13 Iodomethane	142	3.794	3.794	0.000	97	516842	50.0	50.4	
14 Acrolein	56	4.138	4.138	0.000	99	144890	250.0	237.1	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	427097	50.0	52.6	
16 Isopropyl alcohol	45	4.493	4.493	0.000	96	96973	500.0	470.4	
17 Methylene Chloride	84	4.528	4.528	0.000	94	372705	50.0	49.5	
18 Acetone	43	4.646	4.646	0.000	100	54228	50.0	49.6	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	99	433501	50.0	51.5	
20 Methyl acetate	74	4.871	4.871	0.000	97	58841	250.0	258.4	
21 Hexane	86	4.942	4.942	0.000	88	140770	50.0	54.7	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	94	616607	50.0	52.4	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	95	145025	500.0	454.4	
24 Acetonitrile	41	5.380	5.380	0.000	100	220058	500.0	534.1	
25 Isopropyl ether	45	5.640	5.640	0.000	95	1120237	50.0	49.2	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	92	725289	50.0	54.7	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	96	733911	50.0	50.0	
29 Acrylonitrile	53	5.865	5.865	0.000	99	676749	500.0	522.0	

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	6.185	6.185	0.000	97	876182	50.0	49.2	
31 Vinyl acetate	43	6.197	6.197	0.000	98	533556	50.0	54.5	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	79	440738	50.0	54.5	
33 2,2-Dichloropropane	77	6.694	6.694	0.000	92	382771	50.0	51.8	
34 Cyclohexane	84	6.800	6.800	0.000	89	717268	50.0	54.6	
35 Chlorobromomethane	128	6.824	6.824	0.000	97	148914	50.0	51.4	
36 Chloroform	83	6.954	6.954	0.000	94	643880	50.0	49.6	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	488830	50.0	49.9	
38 Tetrahydrofuran	71	7.167	7.167	0.000	87	39052	100.0	102.0	
39 Ethyl acetate	45	7.179	7.179	0.000	98	55817	100.0	104.2	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	580636	50.0	51.1	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	92	317325	50.0	49.7	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	97	584785	50.0	54.4	
43 2-Butanone (MEK)	43	7.404	7.404	0.000	99	81378	50.0	55.5	
124 Isooctane	57	7.546	7.546	0.000	96	1842510	50.0	53.5	
44 Benzene	78	7.699	7.699	0.000	96	1681513	50.0	51.3	
117 n-Heptane	43	7.699	7.699	0.000	72	812810	50.0	53.9	
45 Propionitrile	54	7.770	7.770	0.000	95	246677	500.0	509.7	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	1153296	500.0	513.7	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	96	301998	50.0	48.7	
48 Tert-amyl methyl ether	73	7.900	7.900	0.000	96	647633	50.0	53.6	
49 1,2-Dichloroethane	62	7.983	7.983	0.000	97	364727	50.0	50.0	
50 Isobutyl alcohol	42	8.102	8.102	0.000	93	111585	1250.0	1191.9	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	1587478	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.445	0.000	90	699069	50.0	52.9	
53 Trichloroethene	95	8.468	8.468	0.000	99	443942	50.0	51.2	
54 n-Butanol	56	8.989	8.989	0.000	91	110225	1250.0	1138.9	
55 Dibromomethane	93	9.001	9.001	0.000	96	157291	50.0	51.7	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	96	374781	50.0	52.3	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	440963	50.0	51.5	
123 Ethyl acrylate	55	9.226	9.226	0.000	98	243322	50.0	48.9	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	282926	100.0	100.5	
59 1,4-Dioxane	88	9.498	9.498	0.000	84	37602	1000.0	1024.2	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	89	15887	50.0	45.7	
61 cis-1,3-Dichloropropene	75	10.030	10.030	0.000	96	515600	50.0	49.0	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1498678	50.0	52.0	
63 Toluene	92	10.314	10.314	0.000	98	1052584	50.0	50.2	
64 2-Nitropropane	43	10.622	10.622	0.000	98	83955	100.0	96.3	
65 Tetrachloroethene	164	10.776	10.776	0.000	95	320366	50.0	50.3	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	97	165455	50.0	46.6	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	400143	50.0	47.3	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	89	195692	50.0	48.5	
69 Ethyl methacrylate	69	11.048	11.048	0.000	83	270504	50.0	45.8	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	241368	50.0	49.2	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	91	420143	50.0	51.4	
72 Ethylene Dibromide	107	11.439	11.439	0.000	99	205162	50.0	51.1	
118 n-Butyl acetate	43	11.640	11.640	0.000	97	276178	50.0	44.9	
74 2-Hexanone	43	11.723	11.723	0.000	95	115988	50.0	46.3	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	87	998654	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	84	712087	50.0	51.2	
77 Chlorobenzene	112	12.007	12.007	0.000	98	1017147	50.0	49.1	
78 Ethylbenzene	91	12.042	12.042	0.000	96	2004246	50.0	51.3	

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	12.078	12.078	0.000	95	297891	50.0	48.3	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	97	738541	50.0	50.7	
82 o-Xylene	106	12.610	12.610	0.000	98	668765	50.0	49.7	
83 Styrene	104	12.669	12.669	0.000	95	1059919	50.0	53.4	
84 Bromoform	173	12.681	12.681	0.000	97	111971	50.0	53.9	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1857613	50.0	57.3	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	449864	50.0	53.3	
87 Bromobenzene	156	13.273	13.273	0.000	95	345269	50.0	54.7	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2264941	50.0	56.0	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	229729	50.0	50.8	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	1250015	50.0	54.2	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	1392047	50.0	54.5	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	78	64838	50.0	51.9	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	87	67041	50.0	49.0	
94 Cyclohexanone	55	13.533	13.533	0.000	70	51095	500.0	424.1	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	1265202	50.0	54.3	
96 tert-Butylbenzene	119	13.781	13.781	0.000	93	1236651	50.0	56.3	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	1390783	50.0	54.8	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	1960994	50.0	54.2	
99 4-Isopropyltoluene	119	14.065	14.065	0.000	97	1551794	50.0	56.2	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	677834	50.0	51.3	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	94	393312	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	94	642119	50.0	50.7	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1224985	50.0	51.6	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	397531	50.0	55.2	
120 Benzyl chloride	126	14.432	14.432	0.000	89	72634	50.0	54.2	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	559152	50.0	51.9	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	85	26272	50.0	46.9	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	97	461346	50.0	54.4	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	58	123997	50.0	48.4	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	204763	50.0	52.0	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	93	345410	50.0	56.8	
110 Naphthalene	128	16.113	16.113	0.000	97	564340	50.0	52.4	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	96	286434	50.0	56.2	

Reagents:

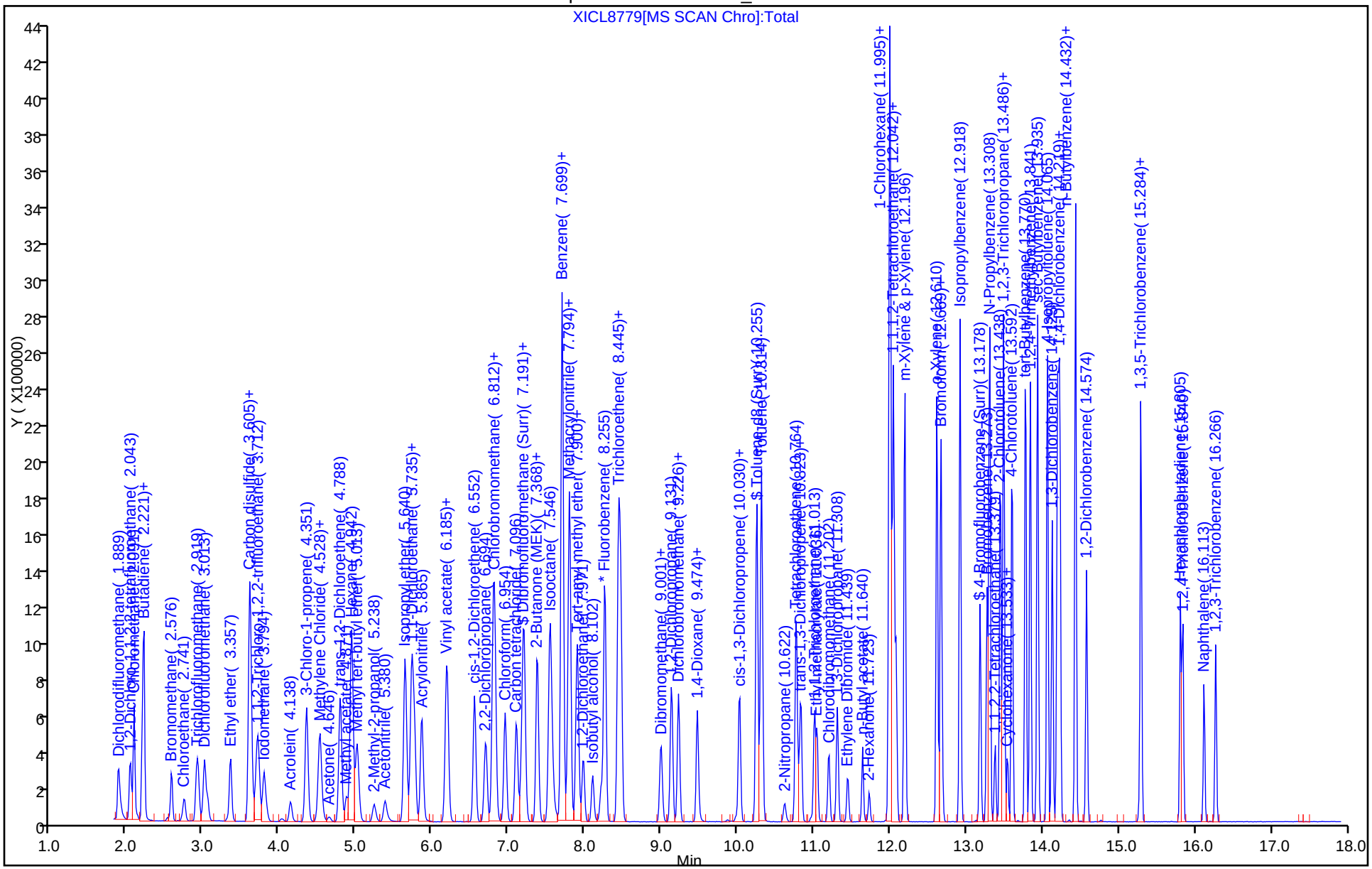
8260 Surr 25_00079	Amount Added: 10.00	Units: uL	
8260 NewWkMix_00236	Amount Added: 10.00	Units: uL	
I.S. Working_00153	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 18-Sep-2017 21:43:34 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8779.D

Injection Date:	15-Sep-2017 01:00:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	ICIS			Worklist Smp#:	8
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\20170914-11418.b\XICL8780.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 15-Sep-2017 01:25:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011418-009
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 18-Sep-2017 21:38:57 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: hannj Date: 18-Sep-2017 16:56:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.889	0.000	99	904088	100.0	95.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	520620	100.0	119.1	
3 Chloromethane	50	2.091	2.091	-0.001	99	1155387	100.0	94.1	
4 Vinyl chloride	62	2.197	2.197	0.000	98	899503	100.0	93.2	
121 Butadiene	39	2.209	2.221	-0.012	89	703739	100.0	87.3	
5 Bromomethane	94	2.576	2.576	0.000	92	339854	100.0	91.8	
6 Chloroethane	64	2.741	2.741	0.000	99	295902	100.0	83.3	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	99	920110	100.0	92.7	
122 Dichlorofluoromethane	67	3.013	3.013	0.000	97	917735	100.0	98.7	
8 Ethyl ether	74	3.357	3.357	0.000	92	386802	100.0	103.5	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	96	853714	100.0	103.0	
11 Ethanol	45	3.605	3.605	0.000	26	187061	4000.0	4071.1	
10 Carbon disulfide	76	3.605	3.605	0.000	99	2756424	100.0	98.6	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.712	0.000	95	593639	100.0	98.5	
13 Iodomethane	142	3.794	3.794	0.000	97	1091905	100.0	104.6	
14 Acrolein	56	4.138	4.138	0.000	99	327149	500.0	509.4	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	896971	100.0	108.6	
16 Isopropyl alcohol	45	4.504	4.493	0.011	98	215442	1000.0	993.2	
17 Methylene Chloride	84	4.528	4.528	0.000	95	735842	100.0	96.1	
18 Acetone	43	4.646	4.646	0.000	100	101810	100.0	91.5	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	99	904740	100.0	105.5	
20 Methyl acetate	74	4.871	4.871	0.000	98	117962	500.0	500.2	
21 Hexane	86	4.942	4.942	0.000	87	287989	100.0	110.0	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	93	1288905	100.0	107.7	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	96	329754	1000.0	976.1	
24 Acetonitrile	41	5.380	5.380	0.000	99	427479	1000.0	1019.6	
25 Isopropyl ether	45	5.640	5.640	0.000	95	2372359	100.0	99.8	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	92	1441541	100.0	106.7	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	96	1426852	100.0	95.5	
S 26 1,2-Dichloroethene, Total	96				0			213.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	99	1358496	1000.0	1029.6	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	98	1845097	100.0	99.3	
31 Vinyl acetate	43	6.197	6.197	0.000	97	1120711	100.0	112.4	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	79	886969	100.0	107.7	
33 2,2-Dichloropropane	77	6.694	6.694	0.000	91	759038	100.0	100.9	
34 Cyclohexane	84	6.800	6.800	0.000	90	1399614	100.0	104.6	
35 Chlorobromomethane	128	6.824	6.824	0.000	96	283198	100.0	96.0	
36 Chloroform	83	6.954	6.954	0.000	94	1292958	100.0	97.9	
37 Carbon tetrachloride	117	7.096	7.096	0.000	98	1008935	100.0	101.2	
38 Tetrahydrofuran	71	7.167	7.167	0.000	92	81284	200.0	199.9	
39 Ethyl acetate	45	7.179	7.179	0.000	99	113063	200.0	205.4	
$ 41 Dibromofluoromethane (Surr	113	7.202	7.202	0.000	93	625168	100.0	96.1	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	1154878	100.0	99.8	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	97	1176304	100.0	107.6	
43 2-Butanone (MEK)	43	7.392	7.404	-0.012	100	162419	100.0	108.8	
124 Isooctane	57	7.545	7.546	-0.001	96	3660317	100.0	104.4	
117 n-Heptane	43	7.699	7.699	0.000	73	1533995	100.0	99.9	
44 Benzene	78	7.699	7.699	0.000	97	3144135	100.0	94.3	
45 Propionitrile	54	7.770	7.770	0.000	95	482963	1000.0	980.6	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	2264386	1000.0	991.1	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	97	599291	100.0	95.0	
48 Tert-amyl methyl ether	73	7.900	7.900	0.000	97	1329415	100.0	108.2	
49 1,2-Dichloroethane	62	7.971	7.983	-0.012	97	721204	100.0	97.1	
50 Isobutyl alcohol	42	8.102	8.102	0.000	94	243015	2500.0	2464.2	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	1615501	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.445	0.000	89	1334287	100.0	99.1	
53 Trichloroethene	95	8.468	8.468	0.000	98	832988	100.0	94.4	
54 n-Butanol	56	8.989	8.989	0.000	90	258969	2500.0	2396.1	
55 Dibromomethane	93	9.001	9.001	0.000	96	308971	100.0	99.9	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	96	773399	100.0	106.0	
123 Ethyl acrylate	55	9.226	9.226	0.000	98	520306	100.0	98.9	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	882934	100.0	101.3	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	596274	200.0	201.1	
59 1,4-Dioxane	88	9.498	9.498	0.000	85	80858	2000.0	2082.7	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	93	43598	100.0	123.2	
61 cis-1,3-Dichloropropene	75	10.019	10.030	-0.011	96	1110060	100.0	100.7	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	2916915	100.0	104.8	
63 Toluene	92	10.314	10.314	0.000	98	2013483	100.0	99.0	
64 2-Nitropropane	43	10.622	10.622	0.000	97	192637	200.0	204.5	
65 Tetrachloroethene	164	10.764	10.776	-0.012	94	634853	100.0	103.2	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.811	-0.011	96	348358	100.0	97.9	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	821131	100.0	97.6	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	89	398666	100.0	102.3	
69 Ethyl methacrylate	69	11.048	11.048	0.000	83	583092	100.0	97.0	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	513886	100.0	108.4	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	91	823279	100.0	104.2	
72 Ethylene Dibromide	107	11.439	11.439	-0.001	99	416097	100.0	107.4	
S 73 1,3-Dichloropropene, Total	75				0			198.3	
118 n-Butyl acetate	43	11.640	11.640	0.000	99	624518	100.0	94.1	
74 2-Hexanone	43	11.722	11.723	-0.001	96	238474	100.0	94.0	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	87	964554	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	93	1336226	100.0	99.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.006	12.007	0.000	96	1909328	100.0	95.5	
78 Ethylbenzene	91	12.042	12.042	0.000	98	3754563	100.0	99.5	
79 1,1,1,2-Tetrachloroethane	131	12.077	12.078	-0.001	95	596098	100.0	100.0	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	97	1424281	100.0	100.6	
82 o-Xylene	106	12.610	12.610	0.000	98	1320810	100.0	100.6	
83 Styrene	104	12.669	12.669	0.000	95	2002935	100.0	104.4	
84 Bromoform	173	12.681	12.681	0.000	96	221463	100.0	106.0	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	3510704	100.0	107.5	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	83	930408	100.0	109.5	
87 Bromobenzene	156	13.273	13.273	0.000	96	662158	100.0	104.3	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	4167150	100.0	102.4	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	448043	100.0	98.5	
90 2-Chlorotoluene	91	13.450	13.438	0.012	96	2414378	100.0	104.0	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	95	2625163	100.0	102.1	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	82	123792	100.0	98.4	
94 Cyclohexanone	55	13.533	13.533	0.000	76	125551	1000.0	985.8	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	89	139558	100.0	98.7	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	2407654	100.0	102.6	
96 tert-Butylbenzene	119	13.781	13.781	0.000	93	2336167	100.0	105.6	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	2573754	100.0	100.8	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	3641858	100.0	100.0	
99 4-Isopropyltoluene	119	14.065	14.065	0.000	96	2909464	100.0	104.6	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	1273779	100.0	95.8	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	96	395929	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	93	1208329	100.0	94.8	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	2338660	100.0	97.9	
120 Benzyl chloride	126	14.432	14.432	0.000	89	149308	100.0	110.6	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	747434	100.0	103.1	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	97	1070580	100.0	98.7	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	84	56211	100.0	96.0	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	62	257019	100.0	95.6	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	845878	100.0	99.1	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	375680	100.0	94.9	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	646901	100.0	105.6	
110 Naphthalene	128	16.113	16.113	-0.001	97	1127266	100.0	101.3	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	538387	100.0	104.9	
S 112 Xylenes, Total	106				0			201.2	
S 113 Trihalomethanes, Total	1				0			413.6	

Reagents:

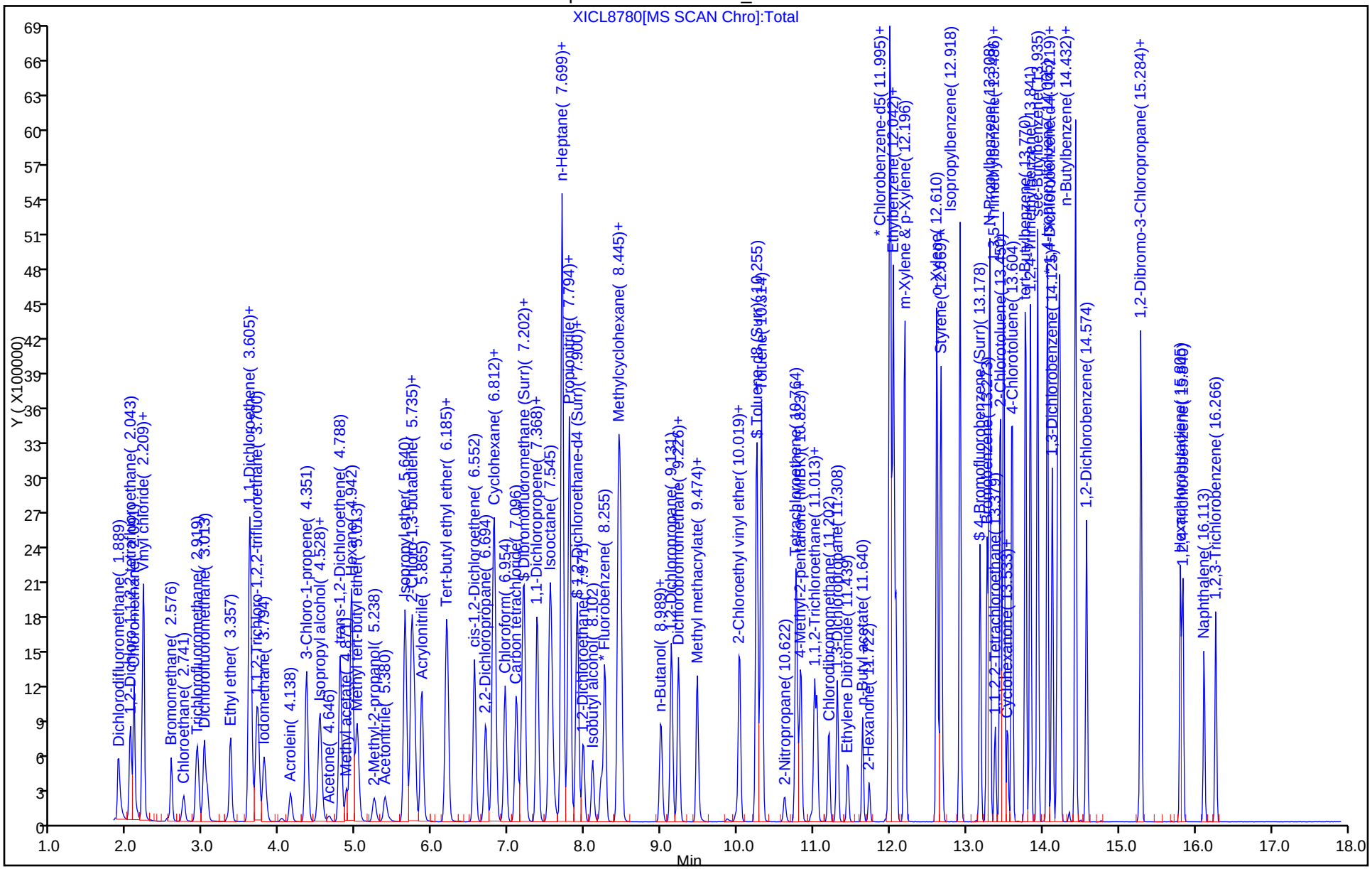
8260 Surr 25_00079	Amount Added: 20.00	Units: uL	
8260NewHiWrk_00213	Amount Added: 4.00	Units: uL	
I.S. Working_00153	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 18-Sep-2017 21:39:00 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8780.D

Injection Date:	15-Sep-2017 01:25:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	IC			Worklist Smp#:	9
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\20170914-11418.b\XICL8781.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 15-Sep-2017 01:49:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011418-010
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 18-Sep-2017 21:39:08 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: hannj Date: 18-Sep-2017 16:57:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.890	1.889	0.001	100	1815577	200.0	188.4	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	1001380	200.0	226.1	
3 Chloromethane	50	2.091	2.091	0.000	99	2295470	200.0	184.6	
4 Vinyl chloride	62	2.197	2.197	0.000	98	1705869	200.0	174.5	
121 Butadiene	39	2.209	2.221	-0.012	89	1344303	200.0	164.7	
5 Bromomethane	94	2.576	2.576	0.000	92	670748	200.0	178.8	
6 Chloroethane	64	2.742	2.741	0.001	99	691583	200.0	192.2	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	99	1871063	200.0	186.1	
122 Dichlorofluoromethane	67	3.014	3.013	0.001	97	1798336	200.0	191.0	
8 Ethyl ether	74	3.357	3.357	0.000	92	783935	200.0	207.0	
10 Carbon disulfide	76	3.617	3.605	0.012	99	5209065	200.0	184.0	
11 Ethanol	45	3.605	3.605	0.000	28	374431	8000.0	7967.1	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	97	1644651	200.0	195.8	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.712	0.000	94	1184484	200.0	194.0	
13 Iodomethane	142	3.795	3.794	0.001	98	2200068	200.0	208.1	
14 Acrolein	56	4.138	4.138	0.000	99	666905	1000.0	1011.1	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	1813234	200.0	216.7	
16 Isopropyl alcohol	45	4.493	4.493	0.000	98	456727	2000.0	2046.9	
17 Methylene Chloride	84	4.528	4.528	0.000	95	1454384	200.0	187.5	
18 Acetone	43	4.647	4.646	0.001	100	199240	200.0	176.8	
19 trans-1,2-Dichloroethene	96	4.789	4.788	0.001	99	1776273	200.0	204.5	
20 Methyl acetate	74	4.871	4.871	0.000	98	238899	1000.0	990.6	
21 Hexane	86	4.942	4.942	0.000	88	567437	200.0	213.8	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	95	2728680	200.0	224.9	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	97	725369	2000.0	2081.8	
24 Acetonitrile	41	5.380	5.380	0.000	99	866941	2000.0	2040.8	
25 Isopropyl ether	45	5.641	5.640	0.001	95	4930569	200.0	202.2	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	92	2904134	200.0	212.2	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	97	2866923	200.0	189.4	
S 26 1,2-Dichloroethene, Total	96				0			416.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.865	5.865	0.000	99	2686520	2000.0	2009.6	
30 Tert-butyl ethyl ether	59	6.185	6.185	0.000	98	3869048	200.0	202.9	
31 Vinyl acetate	43	6.197	6.197	0.000	97	2287824	200.0	226.5	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	80	1770312	200.0	212.2	
33 2,2-Dichloropropane	77	6.706	6.694	0.012	91	1499570	200.0	196.7	
34 Cyclohexane	84	6.800	6.800	0.000	90	2728890	200.0	201.3	
35 Chlorobromomethane	128	6.824	6.824	0.000	95	555206	200.0	185.7	
36 Chloroform	83	6.954	6.954	0.000	94	2613800	200.0	195.3	
37 Carbon tetrachloride	117	7.108	7.096	0.012	98	2083596	200.0	206.3	
38 Tetrahydrofuran	71	7.155	7.167	-0.012	91	168438	400.0	400.0	
39 Ethyl acetate	45	7.179	7.179	0.000	98	217592	400.0	388.3	
40 1,1,1-Trichloroethane	97	7.203	7.202	0.000	98	2312065	200.0	197.3	
$ 41 Dibromofluoromethane (Surr	113	7.203	7.202	0.000	93	1335896	200.0	202.7	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	97	2355714	200.0	212.7	
43 2-Butanone (MEK)	43	7.392	7.404	-0.012	100	317764	200.0	210.1	
124 Isooctane	57	7.546	7.546	0.000	95	7279619	200.0	205.0	
44 Benzene	78	7.699	7.699	0.000	97	5966969	200.0	176.7	
117 n-Heptane	43	7.699	7.699	0.000	74	3040812	200.0	195.5	
45 Propionitrile	54	7.770	7.770	0.000	94	973400	2000.0	1950.5	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	4365830	2000.0	1885.9	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	95	1326987	200.0	207.6	
48 Tert-amyl methyl ether	73	7.901	7.900	0.001	97	2796310	200.0	224.6	
49 1,2-Dichloroethane	62	7.983	7.983	0.000	97	1481158	200.0	196.9	
50 Isobutyl alcohol	42	8.102	8.102	0.000	95	521307	5000.0	5132.2	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	1636863	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.445	0.000	90	2626602	200.0	192.6	
53 Trichloroethene	95	8.469	8.468	0.001	98	1611456	200.0	180.3	
54 n-Butanol	56	8.989	8.989	0.000	87	579470	5000.0	5076.3	
55 Dibromomethane	93	9.001	9.001	0.000	96	623790	200.0	199.0	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	97	1568891	200.0	212.3	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	1820015	200.0	206.2	
123 Ethyl acrylate	55	9.226	9.226	0.000	98	1109314	200.0	204.2	
58 Methyl methacrylate	69	9.474	9.474	0.000	92	1229643	400.0	402.4	
59 1,4-Dioxane	88	9.498	9.498	0.000	84	156526	4000.0	3912.5	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	91	97911	200.0	273.1	
61 cis-1,3-Dichloropropene	75	10.031	10.030	0.001	96	2289275	200.0	202.0	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	5994488	200.0	225.1	
63 Toluene	92	10.315	10.314	0.001	99	3905782	200.0	200.3	
64 2-Nitropropane	43	10.610	10.622	-0.012	97	428507	400.0	399.3	
65 Tetrachloroethene	164	10.764	10.776	-0.012	94	1210625	200.0	205.8	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.811	-0.011	95	715880	200.0	206.8	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	1681972	200.0	206.2	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	89	795777	200.0	213.4	
69 Ethyl methacrylate	69	11.048	11.048	0.000	85	1232214	200.0	209.2	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	1065187	200.0	234.8	
71 1,3-Dichloropropane	76	11.309	11.308	0.001	91	1672142	200.0	221.3	
72 Ethylene Dibromide	107	11.451	11.439	0.012	99	854496	200.0	230.5	
S 73 1,3-Dichloropropene, Total	75				0			408.2	
118 n-Butyl acetate	43	11.640	11.640	0.000	99	1362235	200.0	204.1	
74 2-Hexanone	43	11.723	11.723	0.000	95	524451	200.0	210.9	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	90	922783	50.0	50.0	
75 1-Chlorohexane	91	12.007	11.995	0.012	87	2444913	200.0	190.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	12.007	12.007	0.001	95	3465576	200.0	181.1	
78 Ethylbenzene	91	12.042	12.042	0.000	97	6992509	200.0	193.8	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.078	0.000	95	1188747	200.0	208.5	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	97	2707317	200.0	199.3	
82 o-Xylene	106	12.610	12.610	0.000	97	2549719	200.0	202.1	
83 Styrene	104	12.669	12.669	0.000	95	3795676	200.0	206.8	
84 Bromoform	173	12.681	12.681	0.000	96	444388	200.0	218.5	
85 Isopropylbenzene	105	12.918	12.918	0.000	97	6438144	200.0	202.5	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	82	2004020	200.0	242.2	
87 Bromobenzene	156	13.273	13.273	0.000	96	1268282	200.0	205.1	
88 N-Propylbenzene	91	13.308	13.308	0.000	97	7423445	200.0	187.4	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	95	891784	200.0	201.4	
90 2-Chlorotoluene	91	13.450	13.438	0.012	96	4569966	200.0	202.3	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	95	4781238	200.0	191.1	
92 1,2,3-Trichloropropane	110	13.498	13.497	0.001	81	237457	200.0	193.9	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	89	284124	200.0	203.6	
94 Cyclohexanone	55	13.533	13.533	0.000	76	266709	2000.0	2110.6	
95 4-Chlorotoluene	91	13.604	13.592	0.012	98	4576250	200.0	200.3	
96 tert-Butylbenzene	119	13.782	13.781	0.001	93	4346762	200.0	201.8	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	98	4821009	200.0	193.9	
98 sec-Butylbenzene	105	13.935	13.935	0.000	95	6511559	200.0	183.7	
99 4-Isopropyltoluene	119	14.066	14.065	0.001	96	5322787	200.0	196.6	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	2423470	200.0	187.2	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	95	385426	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.207	0.001	93	2257003	200.0	181.9	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	4352877	200.0	187.3	
103 n-Butylbenzene	134	14.432	14.432	0.000	98	1381000	200.0	195.7	
120 Benzyl chloride	126	14.432	14.432	0.000	90	295098	200.0	224.6	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	2064192	200.0	195.5	
105 1,2-Dibromo-3-Chloropropan	157	15.273	15.272	0.001	85	119549	200.0	205.8	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	95	1481897	200.0	178.4	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	66	555691	200.0	207.6	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	679211	200.0	176.2	
109 1,2,4-Trichlorobenzene	180	15.841	15.840	0.001	94	1169264	200.0	196.1	
110 Naphthalene	128	16.113	16.113	0.000	98	2170322	200.0	197.8	
111 1,2,3-Trichlorobenzene	180	16.267	16.266	0.001	94	967208	200.0	193.5	
S 112 Xylenes, Total	106				0			401.5	
S 113 Trihalomethanes, Total	1				0			854.8	

Reagents:

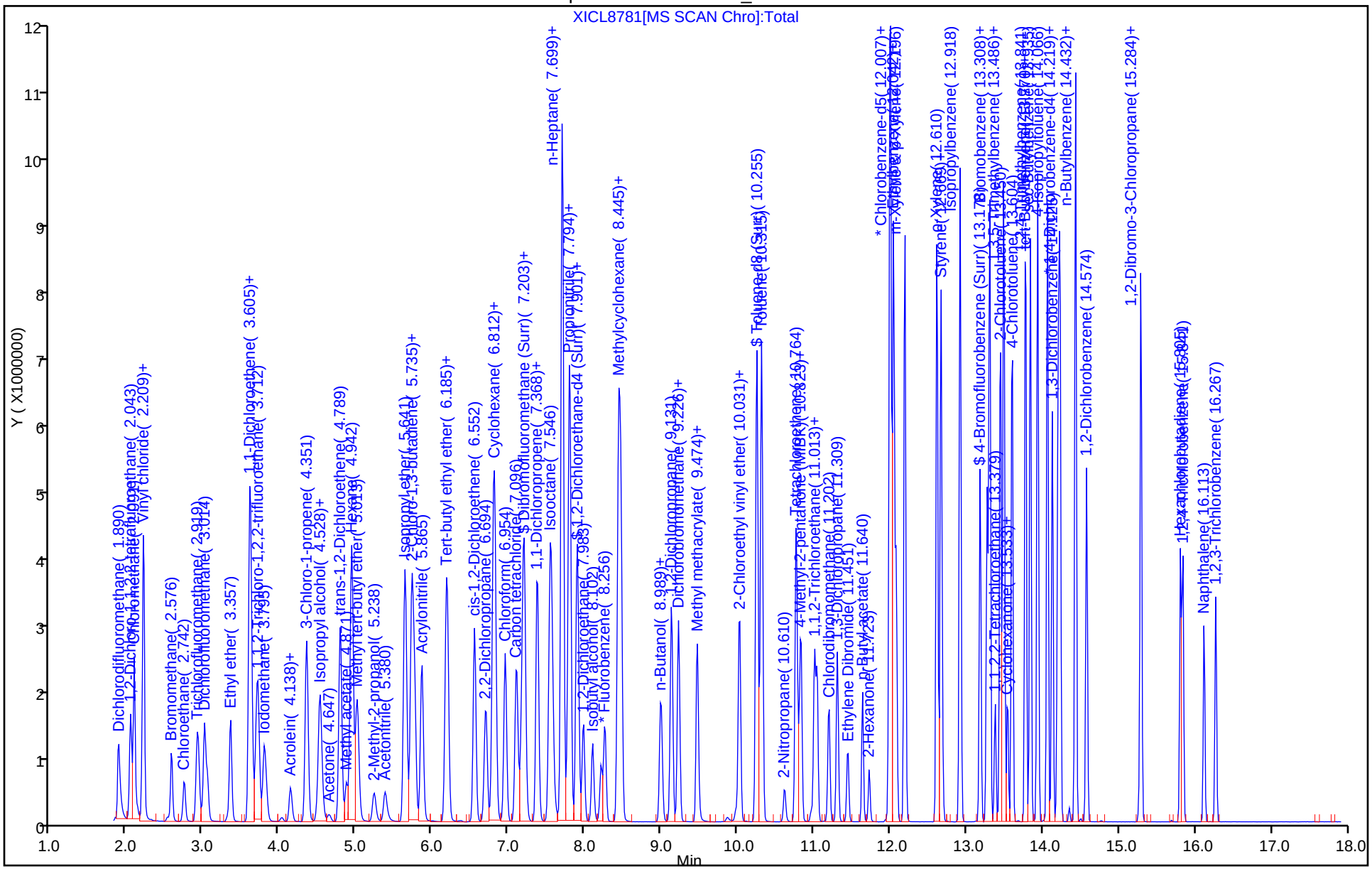
8260NewHiWrk_00213	Amount Added: 8.00	Units: uL	
8260_Surr_00051	Amount Added: 0.40	Units: uL	
I.S. Working_00153	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 18-Sep-2017 21:39:13 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Injection Date:	15-Sep-2017 01:49:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	IC			Worklist Smp#:	10
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.: 280-102516-1

SDG No.:

Lab Sample ID: ICV 160-327349/13 Calibration Date: 09/15/2017 03:04

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XICV8784.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	0.2943	0.2900	0.1000	49.3	50.0	-1.5	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1353	0.1591	0.0100	58.8	50.0	17.6	20.0
Chloromethane	Ave	0.3799	0.3698	0.1000	48.7	50.0	-2.7	20.0
Vinyl chloride	Ave	0.2987	0.2875	0.1000	48.1	50.0	-3.7	20.0
Butadiene	Ave	0.2494	0.2308	0.0100	46.3	50.0	-7.4	20.0
Bromomethane	Ave	0.1146	0.1091	0.1000	47.6	50.0	-4.8	20.0
Chloroethane	Ave	0.1099	0.1008	0.1000	45.8	50.0	-8.3	20.0
Trichlorofluoromethane	Ave	0.3071	0.2918	0.1000	47.5	50.0	-5.0	20.0
Dichlorofluoromethane	Ave	0.2877	0.2967	0.0100	51.6	50.0	3.1	20.0
Ethyl ether	Ave	0.1157	0.1270	0.0100	54.9	50.0	9.7	20.0
1,1-Dichloroethene	Ave	0.2566	0.2776	0.1000	54.1	50.0	8.2	20.0
Carbon disulfide	Ave	0.8649	0.9018	0.1000	52.1	50.0	4.3	20.0
Ethanol	Lin1		0.0013*	0.0100	1920	2000	-4.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1865	0.1946	0.1000	52.2	50.0	4.3	20.0
Iodomethane	Ave	0.3230	0.3433	0.0100	53.1	50.0	6.3	20.0
Acrolein	Lin1		0.0188	0.0010	244	250	-2.5	20.0
3-Chloro-1-propene	Ave	0.2556	0.2839	0.0100	55.5	50.0	11.1	20.0
Isopropyl alcohol	Lin1		0.0064*	0.0100	488	500	-2.4	20.0
Methylene Chloride	Ave	0.2369	0.2387	0.1000	50.4	50.0	0.7	20.0
Acetone	Ave	0.0344	0.0323*	0.1000	46.9	50.0	-6.2	20.0
trans-1,2-Dichloroethene	Ave	0.2653	0.2852	0.1000	53.7	50.0	7.5	20.0
Methyl acetate	Lin1		0.0078*	0.1000	270	250	8.0	20.0
Hexane	Ave	0.0811	0.0943	0.0100	58.1	50.0	16.3	20.0
Methyl tert-butyl ether	Ave	0.3706	0.4093	0.1000	55.2	50.0	10.5	20.0
2-Methyl-2-propanol	Lin1		0.0095*	0.0100	473	500	-5.5	20.0
Acetonitrile	Ave	0.0130	0.0135	0.0010	520	500	3.9	20.0
Isopropyl ether	Lin1		0.7522	0.0100	52.3	50.0	4.6	20.0
2-Chloro-1,3-butadiene	Ave	0.4180	0.4621	0.0100	55.3	50.0	10.5	20.0
1,1-Dichloroethane	Ave	0.4623	0.4756	0.2000	51.4	50.0	2.9	20.0
Acrylonitrile	Ave	0.0408	0.0435	0.0100	533	500	6.6	20.0
Tert-butyl ethyl ether	Lin1		0.5755	0.0100	51.2	50.0	2.4	20.0
Vinyl acetate	Ave	0.3085	0.3395	0.0100	55.0	50.0	10.1	20.0
cis-1,2-Dichloroethene	Ave	0.2548	0.2796	0.1000	54.9	50.0	9.7	20.0
2,2-Dichloropropane	Ave	0.2329	0.2466	0.0100	52.9	50.0	5.9	20.0
Cyclohexane	Ave	0.4140	0.4605	0.1000	55.6	50.0	11.2	20.0
Bromochloromethane	Ave	0.0913	0.0930	0.0100	50.9	50.0	1.9	20.0
Chloroform	Ave	0.4089	0.4242	0.2000	51.9	50.0	3.8	20.0
Carbon tetrachloride	Ave	0.3085	0.3228	0.1000	52.3	50.0	4.6	20.0
Ethyl acetate	Lin1		0.0174	0.0100	103	100	2.9	20.0
1,1,1-Trichloroethane	Ave	0.3580	0.3834	0.1000	53.5	50.0	7.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab Sample ID: ICV 160-327349/13 Calibration Date: 09/15/2017 03:04

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XICV8784.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	0.3383	0.3816	0.0100	56.4	50.0	12.8	20.0
2-Butanone (MEK)	Ave	0.0462	0.0503*	0.1000	54.4	50.0	8.8	20.0
Isooctane	Ave	1.085	1.189	0.0100	54.8	50.0	9.6	20.0
Benzene	Ave	1.031	1.054	0.5000	51.1	50.0	2.2	20.0
n-Heptane	Ave	0.4751	0.5226	0.0100	55.0	50.0	10.0	20.0
Propionitrile	Ave	0.0152	0.0160	0.0010	525	500	5.1	20.0
Methacrylonitrile	Ave	0.0707	0.0723	0.0100	511	500	2.2	20.0
Tert-amyl methyl ether	Ave	0.3803	0.4168	0.0100	54.8	50.0	9.6	20.0
1,2-Dichloroethane	Ave	0.2298	0.2313	0.1000	50.3	50.0	0.7	20.0
Isobutyl alcohol	Lin1		0.0029	0.0010	1220	1250	-2.7	20.0
Methylcyclohexane	Ave	0.4166	0.4374	0.1000	52.5	50.0	5.0	20.0
Trichloroethene	Ave	0.2730	0.2766	0.2000	50.7	50.0	1.3	20.0
n-Butanol	Lin		0.0027*	0.0100	1120	1250	-10.7	20.0
Dibromomethane	Ave	0.0958	0.0966	0.0100	50.4	50.0	0.9	20.0
1,2-Dichloropropane	Ave	0.2258	0.2458	0.1000	54.4	50.0	8.9	20.0
Bromodichloromethane	Ave	0.2696	0.2875	0.2000	53.3	50.0	6.6	20.0
Ethyl acrylate	Lin1		0.1590	0.0100	50.6	50.0	1.1	20.0
Methyl methacrylate	Lin1		0.0906	0.0100	102	100	2.0	20.0
1,4-Dioxane	Lin1		0.0012	0.0010	1010	1000	0.9	20.0
2-Chloroethyl vinyl ether	Ave	0.0110	0.0102	0.0100	46.8	50.0	-6.5	20.0
cis-1,3-Dichloropropene	Lin1		0.3404	0.2000	51.2	50.0	2.5	20.0
Toluene	Lin1		1.114	0.4000	53.1	50.0	6.1	20.0
2-Nitropropane	QuaF		0.0444	0.0100	101	100	1.2	20.0
Tetrachloroethene	Ave	0.3188	0.3393	0.2000	53.2	50.0	6.4	20.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.1826	0.1000	51.1	50.0	2.1	20.0
trans-1,3-Dichloropropene	Lin1		0.4243	0.1000	49.9	50.0	-0.2	20.0
1,1,2-Trichloroethane	Ave	0.2020	0.2142	0.1000	53.0	50.0	6.0	20.0
Ethyl methacrylate	Lin1		0.2899	0.0100	48.7	50.0	-2.5	20.0
Dibromochloromethane	Ave	0.2458	0.2656	0.1000	54.0	50.0	8.1	20.0
1,3-Dichloropropane	Ave	0.4094	0.4424	0.0100	54.0	50.0	8.1	20.0
1,2-Dibromoethane	Ave	0.2009	0.2183	0.1000	54.3	50.0	8.7	20.0
n-Butyl acetate	Lin		0.2990	0.0100	47.8	50.0	-4.3	20.0
2-Hexanone	Lin1		0.1228	0.1000	48.7	50.0	-2.6	20.0
1-Chlorohexane	Ave	0.6958	0.7593	0.0100	54.6	50.0	9.1	20.0
Chlorobenzene	Ave	1.037	1.051	0.5000	50.7	50.0	1.4	20.0
Ethylbenzene	Ave	1.955	2.072	0.1000	53.0	50.0	6.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3089	0.3168	0.0100	51.3	50.0	2.6	20.0
m,p-Xylenes	Lin1		0.7774	0.1000	53.2	50.0	6.5	20.0
o-Xylene	Lin1		0.7072	0.3000	52.4	50.0	4.8	20.0
Styrene	Ave	0.9945	1.088	0.3000	54.7	50.0	9.4	20.0
Bromoform	Ave	0.2638	0.2902	0.1000	55.0	50.0	10.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab Sample ID: ICV 160-327349/13 Calibration Date: 09/15/2017 03:04

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XICV8784.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	4.124	4.848	0.1000	58.8	50.0	17.5	20.0
Bromobenzene	Ave	0.8021	0.8851	0.0100	55.2	50.0	10.3	20.0
N-Propylbenzene	Ave	5.138	5.900	0.0100	57.4	50.0	14.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5745	0.6008	0.3000	52.3	50.0	4.6	20.0
2-Chlorotoluene	Ave	2.931	3.267	0.0100	55.7	50.0	11.5	20.0
1,3,5-Trimethylbenzene	Ave	3.246	3.639	0.0100	56.1	50.0	12.1	20.0
1,2,3-Trichloropropane	Ave	0.1589	0.1698	0.0100	53.4	50.0	6.8	20.0
Cyclohexanone	Lin1		0.0130	0.0010	424	500	-15.2	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1740	0.0100	50.0	50.0	-0.0	20.0
4-Chlorotoluene	Ave	2.963	3.298	0.0100	55.7	50.0	11.3	20.0
tert-Butylbenzene	Ave	2.794	3.247	0.0100	58.1	50.0	16.2	20.0
1,2,4-Trimethylbenzene	Ave	3.225	3.551	0.0100	55.0	50.0	10.1	20.0
sec-Butylbenzene	Ave	4.598	5.103	0.0100	55.5	50.0	11.0	20.0
p-Isopropyltoluene	Ave	3.513	4.041	0.0100	57.5	50.0	15.0	20.0
1,3-Dichlorobenzene	Ave	1.680	1.717	0.6000	51.1	50.0	2.2	20.0
1,4-Dichlorobenzene	Ave	1.609	1.638	0.5000	50.9	50.0	1.8	20.0
1,2,3-Trimethylbenzene	Ave	3.015	3.214	0.0100	53.3	50.0	6.6	20.0
Benzyl chloride	Ave	0.1704	0.1697	0.0100	49.8	50.0	-0.4	20.0
n-Butylbenzene	Ave	0.9154	1.018	0.0100	55.6	50.0	11.2	20.0
1,2-Dichlorobenzene	Ave	1.370	1.427	0.4000	52.1	50.0	4.2	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0717	0.0500	50.1	50.0	0.2	20.0
1,3,5-Trichlorobenzene	Ave	1.077	1.153	0.0100	53.5	50.0	7.0	20.0
n-Nonyl Aldehyde	Lin1		0.2876	0.0100	44.5	50.0	-11.0	20.0
Hexachlorobutadiene	Ave	0.5002	0.5384	0.0100	53.8	50.0	7.6	20.0
1,2,4-Trichlorobenzene	Ave	0.7735	0.8910	0.2000	57.6	50.0	15.2	20.0
Naphthalene	Lin1		1.475	0.0100	53.8	50.0	7.5	20.0
1,2,3-Trichlorobenzene	Ave	0.6483	0.7411	0.0100	57.2	50.0	14.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2013	0.1971	0.0100	49.0	50.0	-2.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1952	0.1932	0.0100	49.5	50.0	-1.1	20.0
Toluene-d8 (Surr)	Ave	1.443	1.570	0.0100	54.4	50.0	8.9	20.0
4-Bromofluorobenzene (Surr)	Ave	1.073	1.172	0.0100	54.6	50.0	9.2	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICV8784.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 15-Sep-2017 03:04:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011418-013
Misc. Info.: ICV
Operator ID: JDH Instrument ID: VMSX
Sublist:

Method: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 18-Sep-2017 21:45:40 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: hannj Date: 18-Sep-2017 21:45:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.889	-0.011	99	476086	50.0	49.3	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	98	261218	50.0	58.8	
3 Chloromethane	50	2.091	2.091	0.000	99	607097	50.0	48.7	
4 Vinyl chloride	62	2.197	2.197	0.000	98	471997	50.0	48.1	
121 Butadiene	39	2.209	2.221	-0.012	89	378896	50.0	46.3	
5 Bromomethane	94	2.576	2.576	0.000	92	179062	50.0	47.6	
6 Chloroethane	64	2.741	2.741	0.000	98	165497	50.0	45.8	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	99	479153	50.0	47.5	
122 Dichlorofluoromethane	67	3.014	3.013	0.001	98	487044	50.0	51.6	
8 Ethyl ether	74	3.357	3.357	0.000	91	208438	50.0	54.9	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1480535	50.0	52.1	
11 Ethanol	45	3.605	3.605	0.000	25	87525	2000.0	1916.0	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	97	455792	50.0	54.1	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.712	0.000	95	319466	50.0	52.2	
13 Iodomethane	142	3.795	3.794	0.001	97	563574	50.0	53.1	
14 Acrolein	56	4.138	4.138	0.000	100	154304	250.0	243.8	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	466077	50.0	55.5	
16 Isopropyl alcohol	45	4.493	4.493	0.000	96	104276	500.0	487.9	
17 Methylene Chloride	84	4.528	4.528	0.000	94	391856	50.0	50.4	
18 Acetone	43	4.647	4.646	0.001	99	53004	50.0	46.9	
19 trans-1,2-Dichloroethene	96	4.789	4.788	0.001	99	468176	50.0	53.7	
20 Methyl acetate	74	4.871	4.871	0.000	98	63680	250.0	270.0	
21 Hexane	86	4.942	4.942	0.000	87	154737	50.0	58.1	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	96	672009	50.0	55.2	
23 2-Methyl-2-propanol	59	5.238	5.238	0.000	94	156460	500.0	472.6	
24 Acetonitrile	41	5.380	5.380	0.000	100	221370	500.0	519.5	
25 Isopropyl ether	45	5.641	5.640	0.000	95	1234963	50.0	52.3	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	91	758663	50.0	55.3	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	96	780879	50.0	51.4	
29 Acrylonitrile	53	5.854	5.865	-0.011	99	714772	500.0	533.0	

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	6.185	6.185	0.000	97	944809	50.0	51.2	
31 Vinyl acetate	43	6.197	6.197	0.000	98	557449	50.0	55.0	
32 cis-1,2-Dichloroethene	96	6.552	6.552	0.000	80	459002	50.0	54.9	
33 2,2-Dichloropropane	77	6.694	6.694	0.000	92	404826	50.0	52.9	
34 Cyclohexane	84	6.800	6.800	0.000	89	756023	50.0	55.6	
35 Chlorobromomethane	128	6.824	6.824	0.000	96	152686	50.0	50.9	
36 Chloroform	83	6.954	6.954	0.000	94	696511	50.0	51.9	
37 Carbon tetrachloride	117	7.096	7.096	0.000	98	529983	50.0	52.3	
38 Tetrahydrofuran	71	7.167	7.167	0.000	90	39826	100.0	100.7	
39 Ethyl acetate	45	7.179	7.179	0.000	99	56980	100.0	102.9	
40 1,1,1-Trichloroethane	97	7.202	7.202	0.000	98	629492	50.0	53.5	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.202	-0.011	92	323623	50.0	49.0	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	97	626544	50.0	56.4	
43 2-Butanone (MEK)	43	7.392	7.404	-0.012	100	82542	50.0	54.4	
124 Isooctane	57	7.546	7.546	0.000	96	1952445	50.0	54.8	
44 Benzene	78	7.699	7.699	0.000	96	1729979	50.0	51.1	
117 n-Heptane	43	7.699	7.699	0.000	73	858038	50.0	55.0	
45 Propionitrile	54	7.770	7.770	0.000	95	263037	500.0	525.5	
46 Methacrylonitrile	41	7.794	7.794	0.000	92	1186814	500.0	511.1	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.889	0.000	97	317140	50.0	49.5	
48 Tert-amyl methyl ether	73	7.901	7.900	0.001	96	684282	50.0	54.8	
49 1,2-Dichloroethane	62	7.972	7.983	-0.011	97	379773	50.0	50.3	
50 Isobutyl alcohol	42	8.102	8.102	0.000	92	117872	1250.0	1215.7	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	1641837	50.0	50.0	
52 Methylcyclohexane	55	8.445	8.445	0.000	90	718173	50.0	52.5	
53 Trichloroethene	95	8.469	8.468	0.001	99	454171	50.0	50.7	
54 n-Butanol	56	8.989	8.989	0.000	88	111367	1250.0	1116.7	
55 Dibromomethane	93	9.001	9.001	0.000	95	158636	50.0	50.4	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	95	403544	50.0	54.4	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	472030	50.0	53.3	
123 Ethyl acrylate	55	9.226	9.226	0.000	98	261005	50.0	50.6	
58 Methyl methacrylate	69	9.474	9.474	0.000	93	297550	100.0	102.0	
59 1,4-Dioxane	88	9.498	9.498	0.000	85	38253	1000.0	1008.6	
60 2-Chloroethyl vinyl ether	63	9.983	9.983	0.000	89	16817	50.0	46.8	
61 cis-1,3-Dichloropropene	75	10.031	10.030	0.001	95	558865	50.0	51.2	
$ 62 Toluene-d8 (Surr)	98	10.255	10.255	0.000	93	1540412	50.0	54.4	
63 Toluene	92	10.315	10.314	0.000	98	1092866	50.0	53.1	
64 2-Nitropropane	43	10.610	10.622	-0.012	98	87106	100.0	101.2	
65 Tetrachloroethene	164	10.764	10.776	-0.012	95	332804	50.0	53.2	
66 4-Methyl-2-pentanone (MIBK	43	10.811	10.811	0.000	96	179134	50.0	51.1	
67 trans-1,3-Dichloropropene	75	10.835	10.835	0.000	93	416208	50.0	49.9	
68 1,1,2-Trichloroethane	83	11.013	11.013	0.000	90	210104	50.0	53.0	
69 Ethyl methacrylate	69	11.048	11.048	0.000	83	284374	50.0	48.7	
70 Chlorodibromomethane	129	11.202	11.202	0.000	91	260543	50.0	54.0	
71 1,3-Dichloropropane	76	11.308	11.308	0.000	91	433973	50.0	54.0	
72 Ethylene Dibromide	107	11.439	11.439	0.000	98	214136	50.0	54.3	
118 n-Butyl acetate	43	11.640	11.640	0.000	98	293278	50.0	47.8	
74 2-Hexanone	43	11.723	11.723	0.000	95	120429	50.0	48.7	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	87	980937	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	95	744808	50.0	54.6	
77 Chlorobenzene	112	12.007	12.007	0.001	98	1031359	50.0	50.7	
78 Ethylbenzene	91	12.042	12.042	0.000	98	2032212	50.0	53.0	

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	12.078	12.078	0.000	95	310768	50.0	51.3	
80 m-Xylene & p-Xylene	106	12.196	12.196	0.000	97	762624	50.0	53.2	
82 o-Xylene	106	12.610	12.610	0.000	98	693669	50.0	52.4	
83 Styrene	104	12.669	12.669	0.000	95	1067036	50.0	54.7	
84 Bromoform	173	12.681	12.681	0.000	95	114820	50.0	55.0	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1917751	50.0	58.8	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	463771	50.0	54.6	
87 Bromobenzene	156	13.273	13.273	0.000	96	350139	50.0	55.2	
88 N-Propylbenzene	91	13.308	13.308	0.000	98	2333954	50.0	57.4	
89 1,1,2,2-Tetrachloroethane	83	13.379	13.379	0.000	94	237666	50.0	52.3	
90 2-Chlorotoluene	91	13.450	13.438	0.012	96	1292393	50.0	55.7	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	1439666	50.0	56.1	
92 1,2,3-Trichloropropane	110	13.498	13.497	0.001	81	67165	50.0	53.4	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	89	68849	50.0	50.0	
94 Cyclohexanone	55	13.533	13.533	0.000	70	51394	500.0	424.1	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	1304829	50.0	55.7	
96 tert-Butylbenzene	119	13.782	13.781	0.001	93	1284664	50.0	58.1	
97 1,2,4-Trimethylbenzene	105	13.841	13.841	0.000	97	1404814	50.0	55.0	
98 sec-Butylbenzene	105	13.935	13.935	0.000	94	2018721	50.0	55.5	
99 4-Isopropyltoluene	119	14.066	14.065	0.001	97	1598577	50.0	57.5	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	679393	50.0	51.1	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.196	0.000	95	395613	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.207	0.001	95	648137	50.0	50.9	
119 1,2,3-Trimethylbenzene	105	14.231	14.231	0.000	98	1271341	50.0	53.3	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	402814	50.0	55.6	
120 Benzyl chloride	126	14.432	14.432	0.000	89	67139	50.0	49.8	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	564609	50.0	52.1	
105 1,2-Dibromo-3-Chloropropan	157	15.272	15.272	0.000	85	28379	50.0	50.1	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	456135	50.0	53.5	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	56	113765	50.0	44.5	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	212988	50.0	53.8	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	352498	50.0	57.6	
110 Naphthalene	128	16.113	16.113	0.000	97	583474	50.0	53.8	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	293199	50.0	57.2	

Reagents:

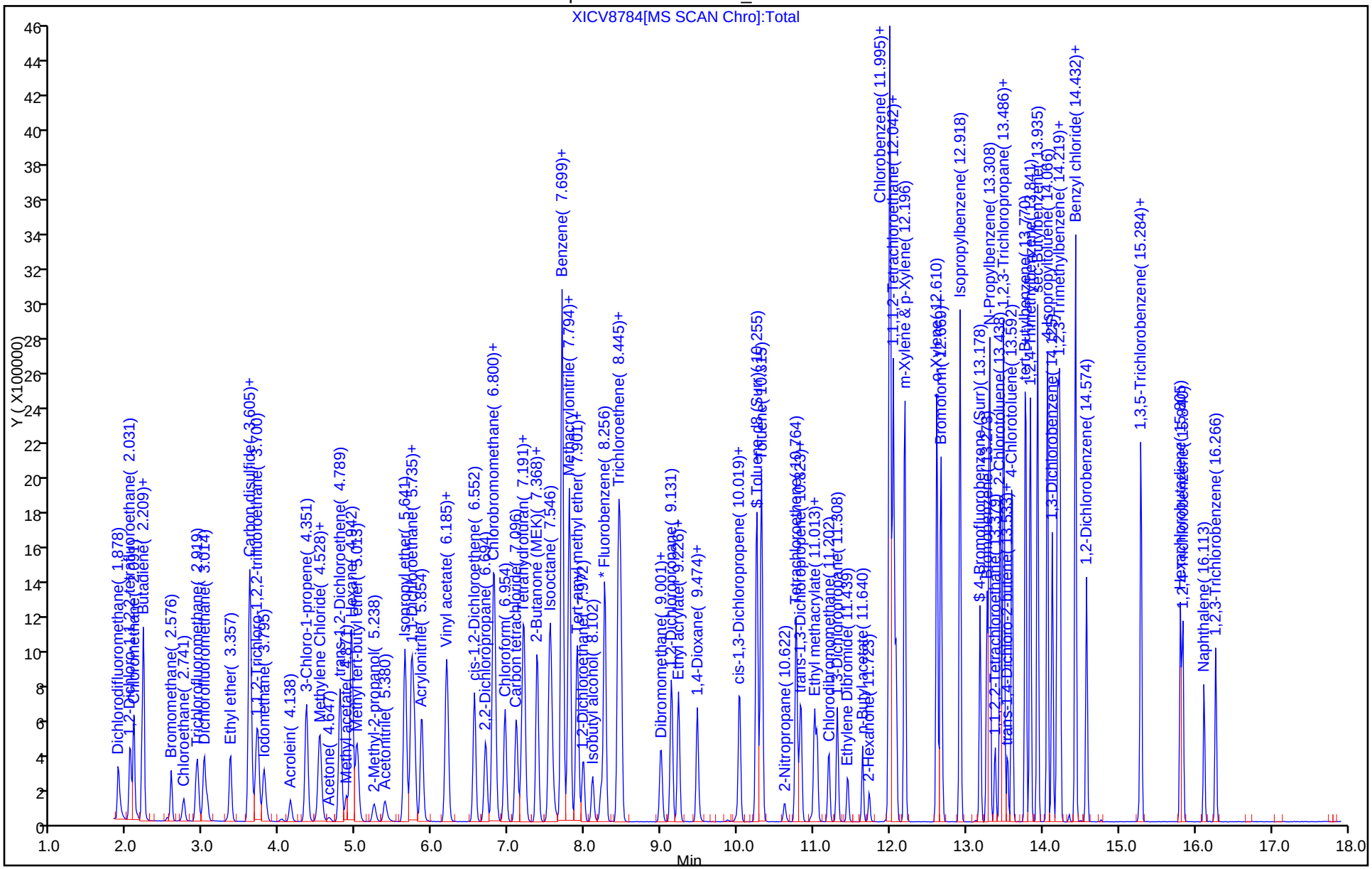
8260NewICVMix_00227	Amount Added: 10.00	Units: uL	
8260 Surr 25_00079	Amount Added: 10.00	Units: uL	
I.S. Working_00153	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 18-Sep-2017 21:45:42 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICV8784.D

Injection Date:	15-Sep-2017 03:04:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	ICV			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab Sample ID: CCV 160-333745/3 Calibration Date: 10/24/2017 19:47

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XCCV9468.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	0.2943	0.3272	0.1000	55.6	50.0	11.2	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1353	0.1509	0.0100	55.8	50.0	11.6	20.0
Chloromethane	Ave	0.3799	0.4418	0.1000	58.2	50.0	16.3	20.0
Vinyl chloride	Ave	0.2987	0.3001	0.1000	50.2	50.0	0.5	20.0
Butadiene	Ave	0.2494	0.2794	0.0100	56.0	50.0	12.1	20.0
Bromomethane	Ave	0.1146	0.1202	0.1000	52.4	50.0	4.8	20.0
Chloroethane	Ave	0.1099	0.1148	0.1000	52.2	50.0	4.5	20.0
Trichlorofluoromethane	Ave	0.3071	0.3433	0.1000	55.9	50.0	11.8	20.0
Dichlorofluoromethane	Ave	0.2877	0.3104	0.0100	54.0	50.0	7.9	20.0
Ethyl ether	Ave	0.1157	0.1088	0.0100	47.0	50.0	-5.9	20.0
1,1-Dichloroethene	Ave	0.2566	0.2606	0.1000	50.8	50.0	1.5	20.0
Carbon disulfide	Ave	0.8649	0.9017	0.1000	52.1	50.0	4.3	20.0
Ethanol	Lin1		0.0015*	0.0100	2160	2000	8.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1865	0.1914	0.1000	51.3	50.0	2.6	20.0
Iodomethane	Ave	0.3230	0.3132	0.0100	48.5	50.0	-3.0	20.0
Acrolein	Lin1		0.0180	0.0010	234	250	-6.3	20.0
3-Chloro-1-propene	Ave	0.2556	0.2811	0.0100	55.0	50.0	10.0	20.0
Isopropyl alcohol	Lin1		0.0060*	0.0100	460	500	-7.9	20.0
Methylene Chloride	Ave	0.2369	0.2301	0.1000	48.6	50.0	-2.9	20.0
Acetone	Ave	0.0344	0.0345*	0.1000	50.1	50.0	0.3	20.0
trans-1,2-Dichloroethene	Ave	0.2653	0.2583	0.1000	48.7	50.0	-2.7	20.0
Methyl acetate	Lin1		0.0064*	0.1000	224	250	-10.5	20.0
Hexane	Ave	0.0811	0.0868	0.0100	53.5	50.0	7.0	20.0
Methyl tert-butyl ether	Ave	0.3706	0.3553	0.1000	47.9	50.0	-4.1	20.0
2-Methyl-2-propanol	Lin1		0.0083*	0.0100	417	500	-16.6	20.0
Acetonitrile	Ave	0.0130	0.0149	0.0010	574	500	14.8	20.0
Isopropyl ether	Lin1		0.7100	0.0100	49.5	50.0	-1.0	20.0
2-Chloro-1,3-butadiene	Ave	0.4180	0.4776	0.0100	57.1	50.0	14.3	20.0
1,1-Dichloroethane	Ave	0.4623	0.4702	0.2000	50.8	50.0	1.7	20.0
Acrylonitrile	Ave	0.0408	0.0451	0.0100	552	500	10.5	20.0
Tert-butyl ethyl ether	Lin1		0.5243	0.0100	46.9	50.0	-6.3	20.0
Vinyl acetate	Ave	0.3085	0.3487	0.0100	56.5	50.0	13.0	20.0
cis-1,2-Dichloroethene	Ave	0.2548	0.2537	0.1000	49.8	50.0	-0.4	20.0
2,2-Dichloropropane	Ave	0.2329	0.2580	0.0100	55.4	50.0	10.8	20.0
Cyclohexane	Ave	0.4140	0.4312	0.1000	52.1	50.0	4.1	20.0
Bromochloromethane	Ave	0.0913	0.0884	0.0100	48.4	50.0	-3.2	20.0
Chloroform	Ave	0.4089	0.4118	0.2000	50.4	50.0	0.7	20.0
Carbon tetrachloride	Ave	0.3085	0.3239	0.1000	52.5	50.0	5.0	20.0
Ethyl acetate	Lin1		0.0166	0.0100	98.6	100	-1.4	20.0
1,1,1-Trichloroethane	Ave	0.3580	0.3753	0.1000	52.4	50.0	4.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab Sample ID: CCV 160-333745/3 Calibration Date: 10/24/2017 19:47

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XCCV9468.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	0.3383	0.3497	0.0100	51.7	50.0	3.4	20.0
2-Butanone (MEK)	Ave	0.0462	0.0535*	0.1000	57.9	50.0	15.9	20.0
Isooctane	Ave	1.085	1.206	0.0100	55.6	50.0	11.2	20.0
Benzene	Ave	1.031	1.041	0.5000	50.5	50.0	0.9	20.0
n-Heptane	Ave	0.4751	0.5778	0.0100	60.8	50.0	21.6*	20.0
Propionitrile	Ave	0.0152	0.0167	0.0010	549	500	9.7	20.0
Methacrylonitrile	Ave	0.0707	0.0792	0.0100	560	500	12.0	20.0
Tert-amyl methyl ether	Ave	0.3803	0.3810	0.0100	50.1	50.0	0.2	20.0
1,2-Dichloroethane	Ave	0.2298	0.2434	0.1000	53.0	50.0	5.9	20.0
Isobutyl alcohol	Lin1		0.0028	0.0010	1200	1250	-3.7	20.0
Methylcyclohexane	Ave	0.4166	0.4663	0.1000	56.0	50.0	11.9	20.0
Trichloroethene	Ave	0.2730	0.2732	0.2000	50.0	50.0	0.0	20.0
n-Butanol	Lin		0.0026*	0.0100	1060	1250	-15.1	20.0
Dibromomethane	Ave	0.0958	0.0967	0.0100	50.5	50.0	1.0	20.0
1,2-Dichloropropane	Ave	0.2258	0.2378	0.1000	52.7	50.0	5.3	20.0
Bromodichloromethane	Ave	0.2696	0.2870	0.2000	53.2	50.0	6.4	20.0
Ethyl acrylate	Lin1		0.1501	0.0100	47.9	50.0	-4.1	20.0
Methyl methacrylate	Lin1		0.0779	0.0100	88.6	100	-11.4	20.0
1,4-Dioxane	Lin1		0.0010	0.0010	897	1000	-10.3	20.0
2-Chloroethyl vinyl ether	Ave	0.0110	0.0468	0.0100	214	50.0	327.6*	20.0
cis-1,3-Dichloropropene	Lin1		0.3147	0.2000	47.6	50.0	-4.8	20.0
Toluene	Lin1		1.094	0.4000	52.1	50.0	4.3	20.0
2-Nitropropane	QuaF		0.0431	0.0100	98.5	100	-1.5	20.0
Tetrachloroethene	Ave	0.3188	0.3325	0.2000	52.1	50.0	4.3	20.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.1682	0.1000	47.3	50.0	-5.4	20.0
trans-1,3-Dichloropropene	Lin1		0.4214	0.1000	49.6	50.0	-0.8	20.0
1,1,2-Trichloroethane	Ave	0.2020	0.2017	0.1000	49.9	50.0	-0.2	20.0
Ethyl methacrylate	Lin1		0.2457	0.0100	41.9	50.0	-16.1	20.0
Dibromochloromethane	Ave	0.2458	0.2560	0.1000	52.1	50.0	4.1	20.0
1,3-Dichloropropane	Ave	0.4094	0.4262	0.0100	52.0	50.0	4.1	20.0
1,2-Dibromoethane	Ave	0.2009	0.2054	0.1000	51.1	50.0	2.3	20.0
n-Butyl acetate	Lin		0.2733	0.0100	44.4	50.0	-11.2	20.0
2-Hexanone	Lin1		0.1204	0.1000	47.8	50.0	-4.4	20.0
1-Chlorohexane	Ave	0.6958	0.6816	0.0100	49.0	50.0	-2.0	20.0
Chlorobenzene	Ave	1.037	1.079	0.5000	52.0	50.0	4.1	20.0
Ethylbenzene	Ave	1.955	2.199	0.1000	56.2	50.0	12.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3089	0.3168	0.0100	51.3	50.0	2.6	20.0
m,p-Xylenes	Lin1		0.7634	0.1000	52.3	50.0	4.5	20.0
o-Xylene	Lin1		0.6897	0.3000	51.1	50.0	2.2	20.0
Styrene	Ave	0.9945	1.074	0.3000	54.0	50.0	8.0	20.0
Bromoform	Ave	0.2638	0.2891	0.1000	54.8	50.0	9.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab Sample ID: CCV 160-333745/3 Calibration Date: 10/24/2017 19:47

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XCCV9468.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	4.124	4.697	0.1000	56.9	50.0	13.9	20.0
Bromobenzene	Ave	0.8021	0.8589	0.0100	53.5	50.0	7.1	20.0
N-Propylbenzene	Ave	5.138	5.923	0.0100	57.6	50.0	15.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5745	0.5621	0.3000	48.9	50.0	-2.2	20.0
2-Chlorotoluene	Ave	2.931	3.303	0.0100	56.3	50.0	12.7	20.0
1,2,3-Trichloropropane	Ave	0.1589	0.1618	0.0100	50.9	50.0	1.8	20.0
1,3,5-Trimethylbenzene	Ave	3.246	3.638	0.0100	56.0	50.0	12.1	20.0
Cyclohexanone	Lin1		0.0128	0.0010	418	500	-16.4	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1916	0.0100	54.8	50.0	9.5	20.0
4-Chlorotoluene	Ave	2.963	3.279	0.0100	55.3	50.0	10.7	20.0
tert-Butylbenzene	Ave	2.794	3.111	0.0100	55.7	50.0	11.3	20.0
1,2,4-Trimethylbenzene	Ave	3.225	3.566	0.0100	55.3	50.0	10.6	20.0
sec-Butylbenzene	Ave	4.598	5.029	0.0100	54.7	50.0	9.4	20.0
p-Isopropyltoluene	Ave	3.513	3.938	0.0100	56.0	50.0	12.1	20.0
1,3-Dichlorobenzene	Ave	1.680	1.727	0.6000	51.4	50.0	2.8	20.0
1,4-Dichlorobenzene	Ave	1.609	1.649	0.5000	51.2	50.0	2.5	20.0
1,2,3-Trimethylbenzene	Ave	3.015	3.199	0.0100	53.0	50.0	6.1	20.0
Benzyl chloride	Ave	0.1704	0.1964	0.0100	57.6	50.0	15.2	20.0
n-Butylbenzene	Ave	0.9154	1.034	0.0100	56.5	50.0	13.0	20.0
1,2-Dichlorobenzene	Ave	1.370	1.383	0.4000	50.5	50.0	1.0	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0620	0.0500	43.7	50.0	-12.5	20.0
1,3,5-Trichlorobenzene	Ave	1.077	1.196	0.0100	55.5	50.0	11.0	20.0
n-Nonyl Aldehyde	Lin1		0.3004	0.0100	46.3	50.0	-7.4	20.0
Hexachlorobutadiene	Ave	0.5002	0.5104	0.0100	51.0	50.0	2.0	20.0
1,2,4-Trichlorobenzene	Ave	0.7735	0.8646	0.2000	55.9	50.0	11.8	20.0
Naphthalene	Lin1		1.322	0.0100	48.5	50.0	-3.0	20.0
1,2,3-Trichlorobenzene	Ave	0.6483	0.7078	0.0100	54.6	50.0	9.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2013	0.1935	0.0100	48.1	50.0	-3.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1952	0.1937	0.0100	49.6	50.0	-0.8	20.0
Toluene-d8 (Surr)	Ave	1.443	1.455	0.0100	50.4	50.0	0.8	20.0
4-Bromofluorobenzene (Surr)	Ave	1.073	1.058	0.0100	49.3	50.0	-1.5	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XCCV9468.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 24-Oct-2017 19:47:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-003
Misc. Info.: CCV
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 20:00:39 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 20:00:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.877	1.877	0.000	99	328724	50.0	55.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.031	2.031	0.000	99	151606	50.0	55.8	
3 Chloromethane	50	2.079	2.079	0.000	99	443890	50.0	58.2	
4 Vinyl chloride	62	2.185	2.185	0.000	98	301499	50.0	50.2	
121 Butadiene	39	2.209	2.209	0.000	89	280707	50.0	56.0	
5 Bromomethane	94	2.576	2.576	0.000	92	120708	50.0	52.4	
6 Chloroethane	64	2.741	2.741	0.000	98	115364	50.0	52.2	
7 Trichlorofluoromethane	101	2.907	2.907	0.000	99	344843	50.0	55.9	
122 Dichlorofluoromethane	67	3.002	3.002	0.000	98	311866	50.0	54.0	
8 Ethyl ether	74	3.345	3.345	0.000	95	109343	50.0	47.0	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	93	261793	50.0	50.8	
11 Ethanol	45	3.605	3.605	0.000	25	60768	2000.0	2163.6	
10 Carbon disulfide	76	3.605	3.605	0.000	100	905885	50.0	52.1	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	94	192251	50.0	51.3	
13 Iodomethane	142	3.783	3.783	0.000	98	314644	50.0	48.5	
14 Acrolein	56	4.126	4.126	0.000	99	90485	250.0	234.2	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	92	282395	50.0	55.0	
16 Isopropyl alcohol	45	4.481	4.481	0.000	94	59986	500.0	460.4	
17 Methylene Chloride	84	4.516	4.516	0.000	98	231206	50.0	48.6	
18 Acetone	43	4.635	4.635	0.000	98	34681	50.0	50.1	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	97	259478	50.0	48.7	
20 Methyl acetate	74	4.871	4.871	0.000	97	32047	250.0	223.7	
21 Hexane	86	4.930	4.930	0.000	89	87159	50.0	53.5	
22 Methyl tert-butyl ether	73	5.001	5.001	0.000	94	356931	50.0	47.9	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	90	83708	500.0	417.2	
24 Acetonitrile	41	5.368	5.368	0.000	98	149704	500.0	574.2	
25 Isopropyl ether	45	5.629	5.629	0.000	96	713304	50.0	49.5	
27 2-Chloro-1,3-butadiene	53	5.711	5.711	0.000	93	479780	50.0	57.1	
28 1,1-Dichloroethane	63	5.747	5.747	0.000	98	472349	50.0	50.8	
29 Acrylonitrile	53	5.853	5.853	0.000	100	453192	500.0	552.3	

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	6.173	6.173	0.000	97	526721	50.0	46.9	
31 Vinyl acetate	43	6.185	6.185	0.000	98	350301	50.0	56.5	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	81	254838	50.0	49.8	
33 2,2-Dichloropropane	77	6.682	6.682	0.000	93	259223	50.0	55.4	
34 Cyclohexane	84	6.788	6.788	0.000	92	433149	50.0	52.1	
35 Chlorobromomethane	128	6.812	6.812	0.000	92	88757	50.0	48.4	
36 Chloroform	83	6.942	6.942	0.000	95	413717	50.0	50.4	
37 Carbon tetrachloride	117	7.084	7.084	0.000	98	325395	50.0	52.5	
38 Tetrahydrofuran	71	7.155	7.155	0.000	94	19864	100.0	83.6	
39 Ethyl acetate	45	7.167	7.167	0.000	97	33362	100.0	98.6	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	97	377085	50.0	52.4	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.190	0.000	91	194381	50.0	48.1	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	96	351356	50.0	51.7	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	97	53780	50.0	57.9	
124 Isooctane	57	7.534	7.534	0.000	96	1211987	50.0	55.6	
117 n-Heptane	43	7.687	7.687	0.000	77	580499	50.0	60.8	
44 Benzene	78	7.687	7.687	0.000	97	1045720	50.0	50.5	
45 Propionitrile	54	7.758	7.758	0.000	95	168007	500.0	548.5	
46 Methacrylonitrile	41	7.782	7.782	0.000	93	795516	500.0	559.9	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	92	194577	50.0	49.6	
48 Tert-amyl methyl ether	73	7.889	7.889	0.000	93	382730	50.0	50.1	
49 1,2-Dichloroethane	62	7.960	7.960	0.000	97	244534	50.0	53.0	
50 Isobutyl alcohol	42	8.090	8.090	0.000	91	71334	1250.0	1203.2	
* 51 Fluorobenzene	96	8.244	8.244	0.000	99	1004648	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.433	0.000	94	468438	50.0	56.0	
53 Trichloroethene	95	8.457	8.457	0.000	98	274458	50.0	50.0	
54 n-Butanol	56	8.977	8.977	0.000	95	64161	1250.0	1061.8	
55 Dibromomethane	93	8.989	8.989	0.000	95	97161	50.0	50.5	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	94	238944	50.0	52.7	
123 Ethyl acrylate	55	9.214	9.214	0.000	98	150773	50.0	47.9	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	288286	50.0	53.2	
58 Methyl methacrylate	69	9.462	9.462	0.000	94	156426	100.0	88.6	
59 1,4-Dioxane	88	9.486	9.486	0.000	83	20607	1000.0	896.7	
60 2-Chloroethyl vinyl ether	63	9.971	9.971	0.000	91	47039	50.0	213.8	E
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	94	316173	50.0	47.6	
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	888898	50.0	50.4	
63 Toluene	92	10.303	10.303	0.000	98	668550	50.0	52.1	
64 2-Nitropropane	43	10.610	10.610	0.000	98	52677	100.0	98.5	
65 Tetrachloroethene	164	10.764	10.764	0.000	95	203127	50.0	52.1	
66 4-Methyl-2-pentanone (MIBK	43	10.799	10.799	0.000	97	102776	50.0	47.3	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	95	257487	50.0	49.6	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	92	123216	50.0	49.9	
69 Ethyl methacrylate	69	11.036	11.036	0.000	86	150089	50.0	41.9	
70 Chlorodibromomethane	129	11.190	11.190	0.000	90	156397	50.0	52.1	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	94	260383	50.0	52.0	
72 Ethylene Dibromide	107	11.438	11.438	0.000	98	125516	50.0	51.1	
118 n-Butyl acetate	43	11.628	11.628	0.000	97	166971	50.0	44.4	
74 2-Hexanone	43	11.722	11.722	0.000	96	73537	50.0	47.8	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	89	610984	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	80	416433	50.0	49.0	
77 Chlorobenzene	112	11.995	11.995	0.000	97	659379	50.0	52.0	
78 Ethylbenzene	91	12.030	12.030	0.000	98	1343540	50.0	56.2	

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	12.066	12.066	0.000	93	193577	50.0	51.3	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	97	466398	50.0	52.3	
82 o-Xylene	106	12.610	12.610	0.000	98	421388	50.0	51.1	
83 Styrene	104	12.657	12.657	0.000	95	656012	50.0	54.0	
84 Bromoform	173	12.681	12.681	0.000	95	72669	50.0	54.8	
85 Isopropylbenzene	105	12.906	12.906	0.000	97	1180415	50.0	56.9	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	83	265852	50.0	49.3	
87 Bromobenzene	156	13.273	13.273	0.000	96	215872	50.0	53.5	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	1488578	50.0	57.6	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	95	141274	50.0	48.9	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	830039	50.0	56.3	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	914317	50.0	56.0	
92 1,2,3-Trichloropropane	110	13.486	13.486	0.000	82	40672	50.0	50.9	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	91	48159	50.0	54.8	
94 Cyclohexanone	55	13.533	13.533	0.000	68	32160	500.0	418.2	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	824142	50.0	55.3	
96 tert-Butylbenzene	119	13.770	13.770	0.000	93	781787	50.0	55.7	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	98	896256	50.0	55.3	
98 sec-Butylbenzene	105	13.923	13.923	0.000	95	1264022	50.0	54.7	
99 4-Isopropyltoluene	119	14.054	14.054	0.000	97	989658	50.0	56.0	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	434098	50.0	51.4	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	96	251332	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.196	14.196	0.000	90	414516	50.0	51.2	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	99	803895	50.0	53.0	
120 Benzyl chloride	126	14.420	14.420	0.000	89	49354	50.0	57.6	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	259903	50.0	56.5	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	347568	50.0	50.5	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	83	15580	50.0	43.7	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	55	75491	50.0	46.3	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	300650	50.0	55.5	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	97	128281	50.0	51.0	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	93	217302	50.0	55.9	
110 Naphthalene	128	16.112	16.112	0.000	97	332301	50.0	48.5	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	177897	50.0	54.6	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

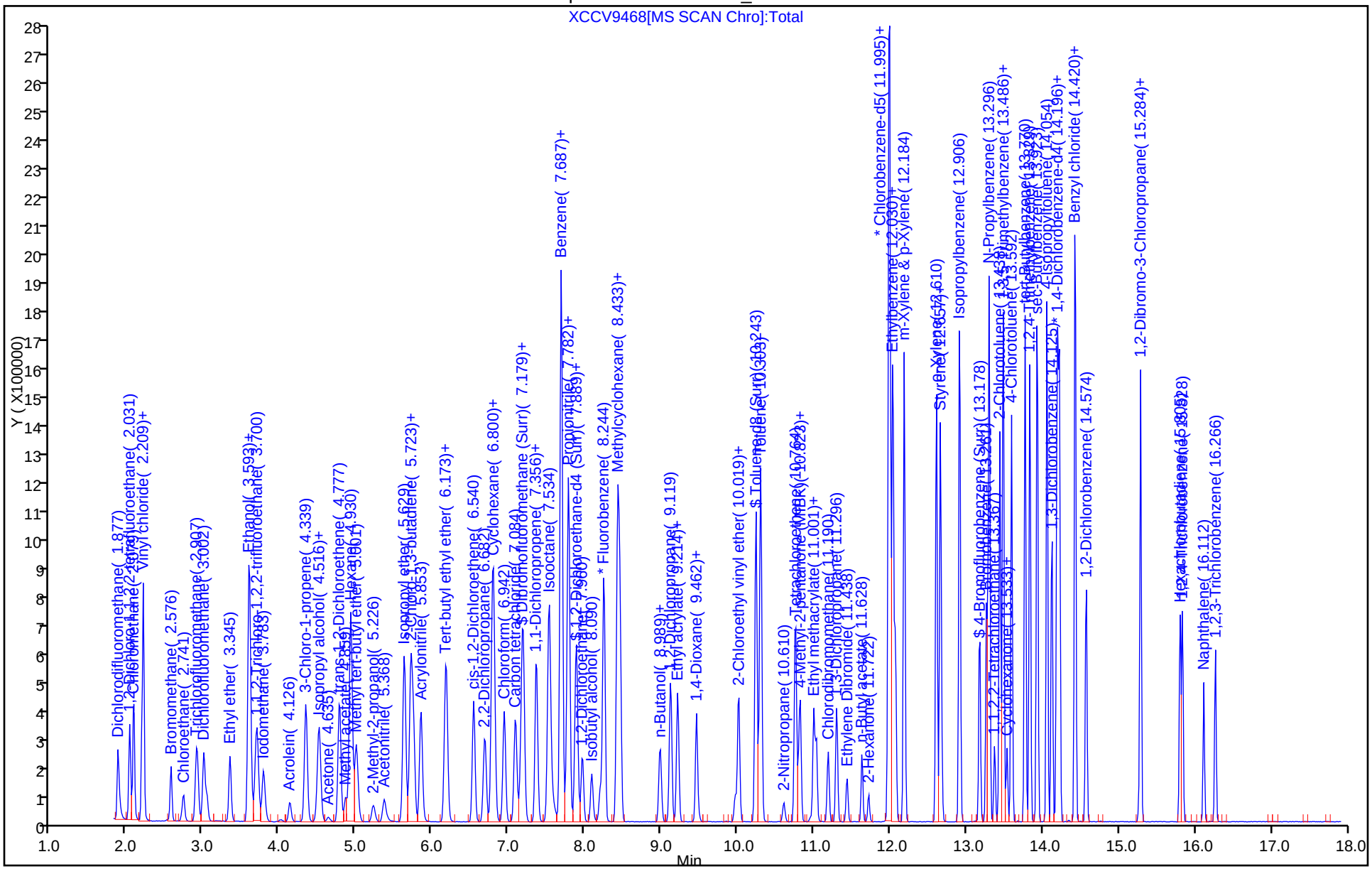
8260 NewWkMix_00243	Amount Added: 10.00	Units: uL	
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 25-Oct-2017 20:00:41 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XCCV9468.D

Injection Date:	24-Oct-2017 19:47:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	CCV			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		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab Sample ID: CCVC 160-333745/16 Calibration Date: 10/25/2017 01:26

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XCCV9481.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	0.2943	0.3028	0.1000	51.4	50.0	2.9	50.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1353	0.1385	0.0100	51.2	50.0	2.4	50.0
Chloromethane	Ave	0.3799	0.3964	0.1000	52.2	50.0	4.3	50.0
Vinyl chloride	Ave	0.2987	0.2725	0.1000	45.6	50.0	-8.8	50.0
Butadiene	Ave	0.2494	0.2481	0.0100	49.7	50.0	-0.5	50.0
Bromomethane	Ave	0.1146	0.1191	0.1000	52.0	50.0	3.9	50.0
Chloroethane	Ave	0.1099	0.1209	0.1000	55.0	50.0	10.0	50.0
Trichlorofluoromethane	Ave	0.3071	0.3372	0.1000	54.9	50.0	9.8	50.0
Dichlorofluoromethane	Ave	0.2877	0.3081	0.0100	53.6	50.0	7.1	50.0
Ethyl ether	Ave	0.1157	0.1034	0.0100	44.7	50.0	-10.6	50.0
1,1-Dichloroethene	Ave	0.2566	0.2543	0.1000	49.5	50.0	-0.9	50.0
Carbon disulfide	Ave	0.8649	0.8836	0.1000	51.1	50.0	2.2	50.0
Ethanol	Lin1		0.0015*	0.0100	2100	2000	5.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1865	0.1914	0.1000	51.3	50.0	2.7	50.0
Iodomethane	Ave	0.3230	0.3168	0.0100	49.0	50.0	-1.9	50.0
Acrolein	Lin1		0.0160	0.0010	210	250	-16.0	50.0
3-Chloro-1-propene	Ave	0.2556	0.2726	0.0100	53.3	50.0	6.6	50.0
Isopropyl alcohol	Lin1		0.0060*	0.0100	465	500	-7.1	50.0
Methylene Chloride	Ave	0.2369	0.2244	0.1000	47.4	50.0	-5.3	50.0
Acetone	Ave	0.0344	0.0306*	0.1000	44.4	50.0	-11.1	50.0
trans-1,2-Dichloroethene	Ave	0.2653	0.2573	0.1000	48.5	50.0	-3.0	50.0
Methyl acetate	Lin1		0.0065*	0.1000	227	250	-9.2	50.0
Hexane	Ave	0.0811	0.0871	0.0100	53.7	50.0	7.5	50.0
Methyl tert-butyl ether	Ave	0.3706	0.3516	0.1000	47.4	50.0	-5.1	50.0
2-Methyl-2-propanol	Lin1		0.0084*	0.0100	422	500	-15.7	50.0
Acetonitrile	Ave	0.0130	0.0139	0.0010	537	500	7.3	50.0
Isopropyl ether	Lin1		0.7078	0.0100	49.3	50.0	-1.3	50.0
2-Chloro-1,3-butadiene	Ave	0.4180	0.4875	0.0100	58.3	50.0	16.6	50.0
1,1-Dichloroethane	Ave	0.4623	0.4638	0.2000	50.2	50.0	0.3	50.0
Acrylonitrile	Ave	0.0408	0.0440	0.0100	538	500	7.6	50.0
Tert-butyl ethyl ether	Lin1		0.5244	0.0100	46.9	50.0	-6.3	50.0
Vinyl acetate	Ave	0.3085	0.3300	0.0100	53.5	50.0	7.0	50.0
cis-1,2-Dichloroethene	Ave	0.2548	0.2548	0.1000	50.0	50.0	0.0	50.0
2,2-Dichloropropane	Ave	0.2329	0.2438	0.0100	52.3	50.0	4.7	50.0
Cyclohexane	Ave	0.4140	0.4405	0.1000	53.2	50.0	6.4	50.0
Bromochloromethane	Ave	0.0913	0.0872	0.0100	47.7	50.0	-4.5	50.0
Chloroform	Ave	0.4089	0.4046	0.2000	49.5	50.0	-1.0	50.0
Carbon tetrachloride	Ave	0.3085	0.3162	0.1000	51.2	50.0	2.5	50.0
Ethyl acetate	Lin1		0.0157	0.0100	93.4	100	-6.6	50.0
1,1,1-Trichloroethane	Ave	0.3580	0.3731	0.1000	52.1	50.0	4.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab Sample ID: CCVC 160-333745/16 Calibration Date: 10/25/2017 01:26

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XCCV9481.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	0.3383	0.3565	0.0100	52.7	50.0	5.4	50.0
2-Butanone (MEK)	Ave	0.0462	0.0504*	0.1000	54.6	50.0	9.1	50.0
Isooctane	Ave	1.085	1.263	0.0100	58.2	50.0	16.4	50.0
Benzene	Ave	1.031	1.023	0.5000	49.6	50.0	-0.8	50.0
n-Heptane	Ave	0.4751	0.5759	0.0100	60.6	50.0	21.2	50.0
Propionitrile	Ave	0.0152	0.0159	0.0010	521	500	4.2	50.0
Methacrylonitrile	Ave	0.0707	0.0772	0.0100	546	500	9.1	50.0
Tert-amyl methyl ether	Ave	0.3803	0.3838	0.0100	50.5	50.0	0.9	50.0
1,2-Dichloroethane	Ave	0.2298	0.2355	0.1000	51.2	50.0	2.5	50.0
Isobutyl alcohol	Lin1		0.0028	0.0010	1170	1250	-6.1	50.0
Methylcyclohexane	Ave	0.4166	0.4818	0.1000	57.8	50.0	15.6	50.0
Trichloroethene	Ave	0.2730	0.2705	0.2000	49.5	50.0	-0.9	50.0
n-Butanol	Lin		0.0025*	0.0100	1050	1250	-15.8	50.0
Dibromomethane	Ave	0.0958	0.0942	0.0100	49.2	50.0	-1.6	50.0
1,2-Dichloropropane	Ave	0.2258	0.2338	0.1000	51.8	50.0	3.6	50.0
Bromodichloromethane	Ave	0.2696	0.2819	0.2000	52.3	50.0	4.6	50.0
Ethyl acrylate	Lin1		0.1432	0.0100	45.9	50.0	-8.2	50.0
Methyl methacrylate	Lin1		0.0782	0.0100	88.9	100	-11.1	50.0
1,4-Dioxane	Lin1		0.0010	0.0010	870	1000	-13.0	50.0
2-Chloroethyl vinyl ether	Ave	0.0110	0.0422	0.0100	193	50.0	285.2*	50.0
cis-1,3-Dichloropropene	Lin1		0.3036	0.2000	46.0	50.0	-8.0	50.0
Toluene	Lin1		1.071	0.4000	51.0	50.0	2.0	50.0
2-Nitropropane	QuaF		0.0444	0.0100	101	100	1.2	50.0
Tetrachloroethene	Ave	0.3188	0.3308	0.2000	51.9	50.0	3.8	50.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.1718	0.1000	48.2	50.0	-3.6	50.0
trans-1,3-Dichloropropene	Lin1		0.3998	0.1000	47.2	50.0	-5.6	50.0
1,1,2-Trichloroethane	Ave	0.2020	0.1976	0.1000	48.9	50.0	-2.2	50.0
Ethyl methacrylate	Lin1		0.2500	0.0100	42.6	50.0	-14.8	50.0
Dibromochloromethane	Ave	0.2458	0.2497	0.1000	50.8	50.0	1.6	50.0
1,3-Dichloropropane	Ave	0.4094	0.4215	0.0100	51.5	50.0	2.9	50.0
1,2-Dibromoethane	Ave	0.2009	0.1996	0.1000	49.7	50.0	-0.6	50.0
n-Butyl acetate	Lin		0.2809	0.0100	45.4	50.0	-9.1	50.0
2-Hexanone	Lin1		0.1156	0.1000	46.1	50.0	-7.8	50.0
1-Chlorohexane	Ave	0.6958	0.6503	0.0100	46.7	50.0	-6.5	50.0
Chlorobenzene	Ave	1.037	1.060	0.5000	51.1	50.0	2.3	50.0
Ethylbenzene	Ave	1.955	2.172	0.1000	55.6	50.0	11.1	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3089	0.3087	0.0100	50.0	50.0	-0.0	50.0
m,p-Xylenes	Lin1		0.7523	0.1000	51.5	50.0	3.0	50.0
o-Xylene	Lin1		0.6821	0.3000	50.6	50.0	1.1	50.0
Styrene	Ave	0.9945	1.069	0.3000	53.7	50.0	7.5	50.0
Bromoform	Ave	0.2638	0.2751	0.1000	52.1	50.0	4.3	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab Sample ID: CCVC 160-333745/16 Calibration Date: 10/25/2017 01:26

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XCCV9481.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	4.124	4.694	0.1000	56.9	50.0	13.8	50.0
Bromobenzene	Ave	0.8021	0.8550	0.0100	53.3	50.0	6.6	50.0
N-Propylbenzene	Ave	5.138	5.845	0.0100	56.9	50.0	13.8	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5745	0.5537	0.3000	48.2	50.0	-3.6	50.0
2-Chlorotoluene	Ave	2.931	3.238	0.0100	55.2	50.0	10.5	50.0
1,3,5-Trimethylbenzene	Ave	3.246	3.657	0.0100	56.3	50.0	12.6	50.0
1,2,3-Trichloropropane	Ave	0.1589	0.1577	0.0100	49.6	50.0	-0.7	50.0
Cyclohexanone	Lin1		0.0121	0.0010	399	500	-20.3	50.0
trans-1,4-Dichloro-2-butene	Lin1		0.1730	0.0100	49.7	50.0	-0.6	50.0
4-Chlorotoluene	Ave	2.963	3.175	0.0100	53.6	50.0	7.2	50.0
tert-Butylbenzene	Ave	2.794	3.137	0.0100	56.2	50.0	12.3	50.0
1,2,4-Trimethylbenzene	Ave	3.225	3.519	0.0100	54.6	50.0	9.1	50.0
sec-Butylbenzene	Ave	4.598	5.061	0.0100	55.0	50.0	10.1	50.0
p-Isopropyltoluene	Ave	3.513	3.915	0.0100	55.7	50.0	11.4	50.0
1,3-Dichlorobenzene	Ave	1.680	1.686	0.6000	50.2	50.0	0.4	50.0
1,4-Dichlorobenzene	Ave	1.609	1.613	0.5000	50.1	50.0	0.2	50.0
1,2,3-Trimethylbenzene	Ave	3.015	3.150	0.0100	52.2	50.0	4.5	50.0
Benzyl chloride	Ave	0.1704	0.1529	0.0100	44.9	50.0	-10.3	50.0
n-Butylbenzene	Ave	0.9154	0.9868	0.0100	53.9	50.0	7.8	50.0
1,2-Dichlorobenzene	Ave	1.370	1.361	0.4000	49.7	50.0	-0.6	50.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0662	0.0500	46.5	50.0	-7.1	50.0
1,3,5-Trichlorobenzene	Ave	1.077	1.134	0.0100	52.6	50.0	5.3	50.0
n-Nonyl Aldehyde	Lin1		0.2746	0.0100	42.6	50.0	-14.7	50.0
Hexachlorobutadiene	Ave	0.5002	0.4899	0.0100	49.0	50.0	-2.1	50.0
1,2,4-Trichlorobenzene	Ave	0.7735	0.8285	0.2000	53.6	50.0	7.1	50.0
Naphthalene	Lin1		1.290	0.0100	47.4	50.0	-5.2	50.0
1,2,3-Trichlorobenzene	Ave	0.6483	0.6881	0.0100	53.1	50.0	6.1	50.0
Dibromofluoromethane (Surr)	Ave	0.2013	0.1938	0.0100	48.1	50.0	-3.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1952	0.1928	0.0100	49.4	50.0	-1.2	50.0
Toluene-d8 (Surr)	Ave	1.443	1.482	0.0100	51.4	50.0	2.7	50.0
4-Bromofluorobenzene (Surr)	Ave	1.073	1.092	0.0100	50.9	50.0	1.7	50.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XCCV9481.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 25-Oct-2017 01:26:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-016
Misc. Info.: CCVC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 20:01:48 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 20:01:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.877	1.877	0.000	99	316763	50.0	51.4	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.031	2.031	0.000	99	144915	50.0	51.2	
3 Chloromethane	50	2.090	2.090	0.000	99	414724	50.0	52.2	
4 Vinyl chloride	62	2.197	2.197	0.000	98	285077	50.0	45.6	
121 Butadiene	39	2.209	2.209	0.000	88	259527	50.0	49.7	
5 Bromomethane	94	2.576	2.576	0.000	93	124624	50.0	52.0	
6 Chloroethane	64	2.741	2.741	0.000	98	126492	50.0	55.0	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	352813	50.0	54.9	
122 Dichlorofluoromethane	67	3.002	3.002	0.000	97	322369	50.0	53.6	
8 Ethyl ether	74	3.345	3.345	0.000	96	108193	50.0	44.7	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	95	266009	50.0	49.5	
11 Ethanol	45	3.605	3.605	0.000	26	61378	2000.0	2100.7	
10 Carbon disulfide	76	3.605	3.605	0.000	100	924506	50.0	51.1	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	95	200286	50.0	51.3	
13 Iodomethane	142	3.794	3.794	0.000	98	331494	50.0	49.0	
14 Acrolein	56	4.138	4.138	0.000	99	83892	250.0	210.0	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	92	285215	50.0	53.3	
16 Isopropyl alcohol	45	4.493	4.493	0.000	94	63072	500.0	464.6	
17 Methylene Chloride	84	4.516	4.516	0.000	99	234794	50.0	47.4	
18 Acetone	43	4.635	4.635	0.000	99	31998	50.0	44.4	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	97	269244	50.0	48.5	
20 Methyl acetate	74	4.871	4.871	0.000	97	33906	250.0	227.1	
21 Hexane	86	4.930	4.930	0.000	89	91122	50.0	53.7	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	90	367823	50.0	47.4	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	93	88179	500.0	421.7	
24 Acetonitrile	41	5.368	5.368	0.000	99	145678	500.0	536.5	
25 Isopropyl ether	45	5.640	5.640	0.000	95	740496	50.0	49.3	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	93	510057	50.0	58.3	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	98	485224	50.0	50.2	
S 26 1,2-Dichloroethene, Total	96				0			98.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.853	5.853	0.000	99	459884	500.0	538.2	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	97	548614	50.0	46.9	
31 Vinyl acetate	43	6.197	6.197	0.000	98	345286	50.0	53.5	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	81	266624	50.0	50.0	
33 2,2-Dichloropropane	77	6.693	6.693	0.000	93	255064	50.0	52.3	
34 Cyclohexane	84	6.800	6.800	0.000	92	460917	50.0	53.2	
35 Chlorobromomethane	128	6.812	6.812	0.000	92	91201	50.0	47.7	
36 Chloroform	83	6.942	6.942	0.000	95	423317	50.0	49.5	
37 Carbon tetrachloride	117	7.096	7.096	0.000	98	330844	50.0	51.2	
38 Tetrahydrofuran	71	7.155	7.155	0.000	90	20517	100.0	83.0	
39 Ethyl acetate	45	7.167	7.167	0.000	96	32879	100.0	93.4	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	98	390326	50.0	52.1	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.190	0.000	92	202785	50.0	48.1	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	96	372943	50.0	52.7	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	99	52742	50.0	54.6	
124 Isooctane	57	7.534	7.534	0.000	96	1321423	50.0	58.2	
117 n-Heptane	43	7.687	7.687	0.000	77	602505	50.0	60.6	
44 Benzene	78	7.687	7.687	0.000	97	1070309	50.0	49.6	
45 Propionitrile	54	7.758	7.758	0.000	93	166240	500.0	521.2	
46 Methacrylonitrile	41	7.782	7.782	0.000	93	807516	500.0	545.7	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	94	201724	50.0	49.4	
48 Tert-amyl methyl ether	73	7.889	7.889	0.000	93	401549	50.0	50.5	
49 1,2-Dichloroethane	62	7.971	7.971	0.000	97	246379	50.0	51.2	
50 Isobutyl alcohol	42	8.090	8.090	0.000	90	72328	1250.0	1173.5	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	1046260	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.433	0.000	94	504055	50.0	57.8	
53 Trichloroethene	95	8.457	8.457	0.000	98	282983	50.0	49.5	
54 n-Butanol	56	8.977	8.977	0.000	93	66080	1250.0	1052.0	
55 Dibromomethane	93	8.989	8.989	0.000	95	98564	50.0	49.2	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	95	244640	50.0	51.8	
123 Ethyl acrylate	55	9.214	9.214	0.000	98	149772	50.0	45.9	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	294943	50.0	52.3	
58 Methyl methacrylate	69	9.462	9.462	0.000	95	163620	100.0	88.9	
59 1,4-Dioxane	88	9.486	9.486	0.000	78	20756	1000.0	869.7	
60 2-Chloroethyl vinyl ether	63	9.971	9.971	0.000	93	44129	50.0	192.6	
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	94	317690	50.0	46.0	
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	936927	50.0	51.4	
63 Toluene	92	10.303	10.303	0.000	98	676796	50.0	51.0	
64 2-Nitropropane	43	10.610	10.610	0.000	98	56128	100.0	101.2	
65 Tetrachloroethene	164	10.764	10.764	0.000	94	209118	50.0	51.9	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.800	0.000	98	108584	50.0	48.2	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	95	252756	50.0	47.2	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	93	124920	50.0	48.9	
69 Ethyl methacrylate	69	11.036	11.036	0.000	86	158064	50.0	42.6	
70 Chlorodibromomethane	129	11.190	11.190	0.000	91	157831	50.0	50.8	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	94	266459	50.0	51.5	
72 Ethylene Dibromide	107	11.438	11.438	0.000	98	126183	50.0	49.7	
S 73 1,3-Dichloropropene, Total	75				0			93.2	
118 n-Butyl acetate	43	11.628	11.628	0.000	98	177577	50.0	45.4	
74 2-Hexanone	43	11.722	11.722	0.000	96	73077	50.0	46.1	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	632183	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	84	411120	50.0	46.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	11.995	11.995	0.000	98	670333	50.0	51.1	
78 Ethylbenzene	91	12.042	12.042	0.000	96	1373324	50.0	55.6	
79 1,1,1,2-Tetrachloroethane	131	12.066	12.066	0.000	94	195145	50.0	50.0	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	97	475563	50.0	51.5	
82 o-Xylene	106	12.610	12.610	0.000	98	431237	50.0	50.6	
83 Styrene	104	12.657	12.657	0.000	95	675602	50.0	53.7	
84 Bromoform	173	12.681	12.681	0.000	95	71070	50.0	52.1	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1212663	50.0	56.9	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	282138	50.0	50.9	
87 Bromobenzene	156	13.273	13.273	0.000	97	220887	50.0	53.3	
88 N-Propylbenzene	91	13.296	13.296	0.000	99	1509993	50.0	56.9	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	95	143037	50.0	48.2	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	836533	50.0	55.2	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	93	944694	50.0	56.3	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	83	40750	50.0	49.6	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	89	44693	50.0	49.7	
94 Cyclohexanone	55	13.533	13.533	0.000	70	31371	500.0	398.6	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	820235	50.0	53.6	
96 tert-Butylbenzene	119	13.770	13.770	0.000	93	810491	50.0	56.2	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	98	909195	50.0	54.6	
98 sec-Butylbenzene	105	13.923	13.923	0.000	95	1307341	50.0	55.0	
99 4-Isopropyltoluene	119	14.054	14.054	0.000	97	1011348	50.0	55.7	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	435542	50.0	50.2	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	258337	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	95	416656	50.0	50.1	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	99	813760	50.0	52.2	
120 Benzyl chloride	126	14.420	14.420	0.000	89	39498	50.0	44.9	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	254915	50.0	53.9	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	351592	50.0	49.7	
105 1,2-Dibromo-3-Chloropropan	157	15.261	15.261	0.000	84	17091	50.0	46.5	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	55	70929	50.0	42.6	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	293056	50.0	52.6	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	95	126555	50.0	49.0	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	214028	50.0	53.6	
110 Naphthalene	128	16.112	16.112	0.000	97	333380	50.0	47.4	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	177751	50.0	53.1	
S 112 Xylenes, Total	106				0			102.1	
S 113 Trihalomethanes, Total	1				0			204.7	

Reagents:

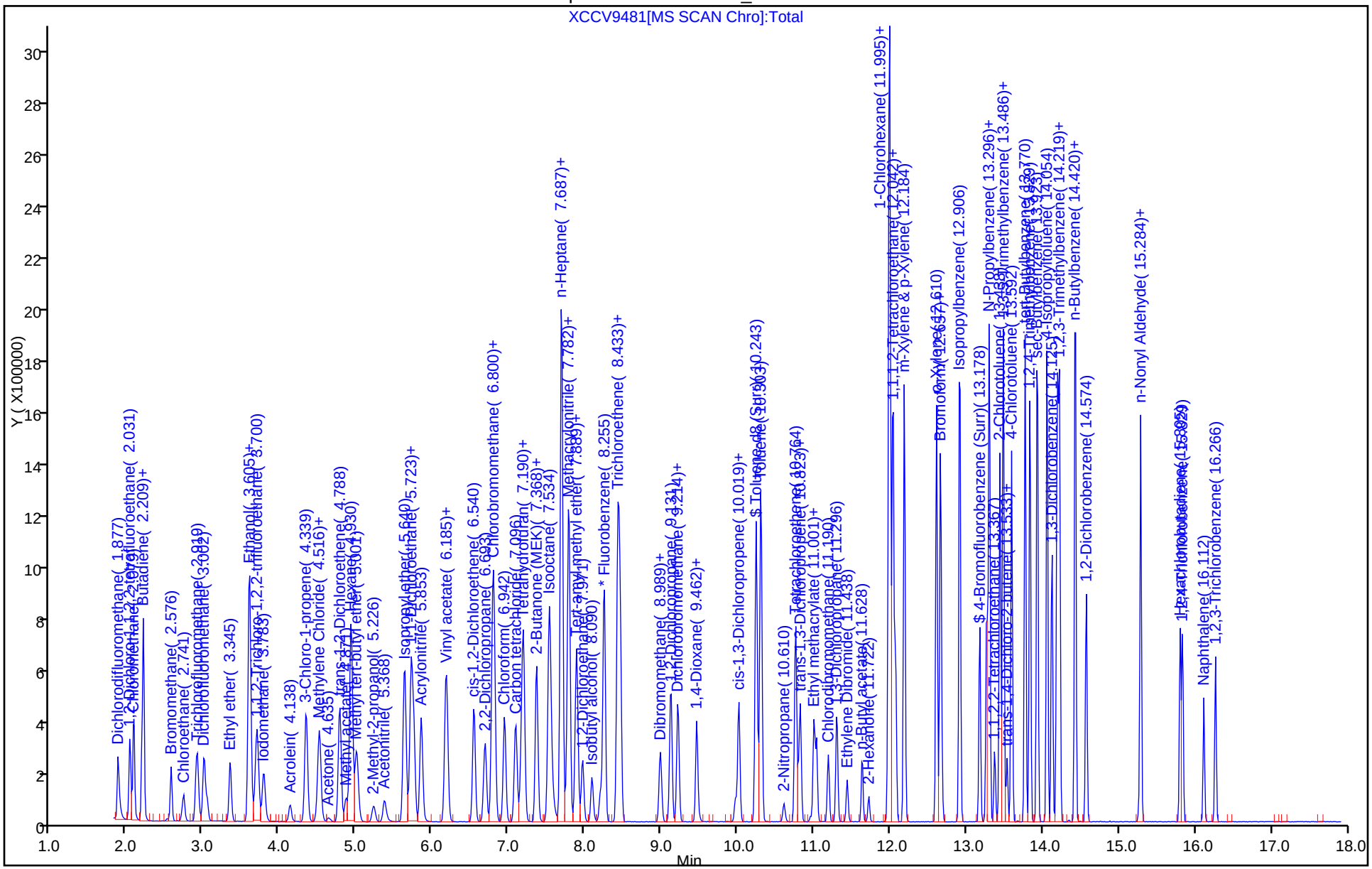
8260 NewWkMix_00243	Amount Added: 10.00	Units: uL	
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 25-Oct-2017 20:01:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XCCV9481.D

Injection Date:	25-Oct-2017 01:26:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	CCVC			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab Sample ID: CCV 160-333931/3 Calibration Date: 10/25/2017 15:35

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XCCV9505.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	0.2943	0.2985	0.1000	50.7	50.0	1.4	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1353	0.1403	0.0100	51.9	50.0	3.7	20.0
Chloromethane	Ave	0.3799	0.4127	0.1000	54.3	50.0	8.6	20.0
Vinyl chloride	Ave	0.2987	0.2821	0.1000	47.2	50.0	-5.5	20.0
Butadiene	Ave	0.2494	0.2599	0.0100	52.1	50.0	4.2	20.0
Bromomethane	Ave	0.1146	0.1139	0.1000	49.7	50.0	-0.6	20.0
Chloroethane	Ave	0.1099	0.1142	0.1000	51.9	50.0	3.8	20.0
Trichlorofluoromethane	Ave	0.3071	0.3502	0.1000	57.0	50.0	14.0	20.0
Dichlorofluoromethane	Ave	0.2877	0.3054	0.0100	53.1	50.0	6.2	20.0
Ethyl ether	Ave	0.1157	0.1054	0.0100	45.6	50.0	-8.9	20.0
1,1-Dichloroethene	Ave	0.2566	0.2529	0.1000	49.3	50.0	-1.4	20.0
Ethanol	Lin1		0.0015*	0.0100	2070	2000	3.6	20.0
Carbon disulfide	Ave	0.8649	0.8898	0.1000	51.4	50.0	2.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1865	0.1886	0.1000	50.6	50.0	1.1	20.0
Iodomethane	Ave	0.3230	0.3165	0.0100	49.0	50.0	-2.0	20.0
Acrolein	Lin1		0.0172	0.0010	224	250	-10.3	20.0
3-Chloro-1-propene	Ave	0.2556	0.2709	0.0100	53.0	50.0	6.0	20.0
Isopropyl alcohol	Lin1		0.0057*	0.0100	438	500	-12.4	20.0
Methylene Chloride	Ave	0.2369	0.2302	0.1000	48.6	50.0	-2.8	20.0
Acetone	Ave	0.0344	0.0308*	0.1000	44.7	50.0	-10.6	20.0
trans-1,2-Dichloroethene	Ave	0.2653	0.2550	0.1000	48.0	50.0	-3.9	20.0
Methyl acetate	Lin1		0.0063*	0.1000	222	250	-11.2	20.0
Hexane	Ave	0.0811	0.0858	0.0100	52.9	50.0	5.8	20.0
Methyl tert-butyl ether	Ave	0.3706	0.3386	0.1000	45.7	50.0	-8.6	20.0
2-Methyl-2-propanol	Lin1		0.0078*	0.0100	392	500	-21.6*	20.0
Acetonitrile	Ave	0.0130	0.0141	0.0010	545	500	8.9	20.0
Isopropyl ether	Lin1		0.6929	0.0100	48.4	50.0	-3.3	20.0
2-Chloro-1,3-butadiene	Ave	0.4180	0.4764	0.0100	57.0	50.0	14.0	20.0
1,1-Dichloroethane	Ave	0.4623	0.4727	0.2000	51.1	50.0	2.2	20.0
Acrylonitrile	Ave	0.0408	0.0442	0.0100	541	500	8.2	20.0
Tert-butyl ethyl ether	Lin1		0.5093	0.0100	45.6	50.0	-8.8	20.0
Vinyl acetate	Ave	0.3085	0.3344	0.0100	54.2	50.0	8.4	20.0
cis-1,2-Dichloroethene	Ave	0.2548	0.2546	0.1000	50.0	50.0	-0.0	20.0
2,2-Dichloropropane	Ave	0.2329	0.2641	0.0100	56.7	50.0	13.4	20.0
Cyclohexane	Ave	0.4140	0.4293	0.1000	51.8	50.0	3.7	20.0
Bromochloromethane	Ave	0.0913	0.0889	0.0100	48.7	50.0	-2.6	20.0
Chloroform	Ave	0.4089	0.4101	0.2000	50.2	50.0	0.3	20.0
Carbon tetrachloride	Ave	0.3085	0.3213	0.1000	52.1	50.0	4.1	20.0
Ethyl acetate	Lin1		0.0157	0.0100	93.6	100	-6.4	20.0
1,1,1-Trichloroethane	Ave	0.3580	0.3741	0.1000	52.2	50.0	4.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab Sample ID: CCV 160-333931/3 Calibration Date: 10/25/2017 15:35

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XCCV9505.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	0.3383	0.3543	0.0100	52.4	50.0	4.7	20.0
2-Butanone (MEK)	Ave	0.0462	0.0509*	0.1000	55.1	50.0	10.2	20.0
Isooctane	Ave	1.085	1.228	0.0100	56.6	50.0	13.2	20.0
Benzene	Ave	1.031	1.030	0.5000	49.9	50.0	-0.1	20.0
n-Heptane	Ave	0.4751	0.5770	0.0100	60.7	50.0	21.4*	20.0
Propionitrile	Ave	0.0152	0.0162	0.0010	532	500	6.4	20.0
Methacrylonitrile	Ave	0.0707	0.0763	0.0100	540	500	8.0	20.0
Tert-amyl methyl ether	Ave	0.3803	0.3699	0.0100	48.6	50.0	-2.7	20.0
1,2-Dichloroethane	Ave	0.2298	0.2405	0.1000	52.3	50.0	4.6	20.0
Isobutyl alcohol	Lin1		0.0028	0.0010	1180	1250	-6.0	20.0
Methylcyclohexane	Ave	0.4166	0.4717	0.1000	56.6	50.0	13.2	20.0
Trichloroethene	Ave	0.2730	0.2750	0.2000	50.4	50.0	0.7	20.0
n-Butanol	Lin		0.0025*	0.0100	1040	1250	-16.8	20.0
Dibromomethane	Ave	0.0958	0.0946	0.0100	49.4	50.0	-1.2	20.0
1,2-Dichloropropane	Ave	0.2258	0.2355	0.1000	52.1	50.0	4.3	20.0
Bromodichloromethane	Ave	0.2696	0.2836	0.2000	52.6	50.0	5.2	20.0
Ethyl acrylate	Lin1		0.1417	0.0100	45.5	50.0	-9.1	20.0
Methyl methacrylate	Lin1		0.0753	0.0100	85.9	100	-14.1	20.0
1,4-Dioxane	Lin1		0.0010	0.0010	867	1000	-13.3	20.0
2-Chloroethyl vinyl ether	Ave	0.0110	0.0361	0.0100	165	50.0	229.5*	20.0
cis-1,3-Dichloropropene	Lin1		0.3144	0.2000	47.5	50.0	-4.9	20.0
Toluene	Lin1		1.104	0.4000	52.6	50.0	5.1	20.0
2-Nitropropane	QuaF		0.0430	0.0100	98.3	100	-1.7	20.0
Tetrachloroethene	Ave	0.3188	0.3390	0.2000	53.2	50.0	6.3	20.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.1692	0.1000	47.5	50.0	-4.9	20.0
trans-1,3-Dichloropropene	Lin1		0.4153	0.1000	48.9	50.0	-2.2	20.0
1,1,2-Trichloroethane	Ave	0.2020	0.2018	0.1000	49.9	50.0	-0.1	20.0
Ethyl methacrylate	Lin1		0.2465	0.0100	42.1	50.0	-15.9	20.0
Dibromochloromethane	Ave	0.2458	0.2543	0.1000	51.7	50.0	3.4	20.0
1,3-Dichloropropane	Ave	0.4094	0.4230	0.0100	51.7	50.0	3.3	20.0
1,2-Dibromoethane	Ave	0.2009	0.2009	0.1000	50.0	50.0	0.0	20.0
n-Butyl acetate	Lin		0.2681	0.0100	43.7	50.0	-12.6	20.0
2-Hexanone	Lin1		0.1144	0.1000	45.6	50.0	-8.7	20.0
1-Chlorohexane	Ave	0.6958	0.6879	0.0100	49.4	50.0	-1.1	20.0
Chlorobenzene	Ave	1.037	1.094	0.5000	52.7	50.0	5.5	20.0
Ethylbenzene	Ave	1.955	2.249	0.1000	57.5	50.0	15.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3089	0.3254	0.0100	52.7	50.0	5.3	20.0
m,p-Xylenes	Lin1		0.7731	0.1000	52.9	50.0	5.9	20.0
o-Xylene	Lin1		0.7166	0.3000	53.1	50.0	6.2	20.0
Styrene	Ave	0.9945	1.109	0.3000	55.8	50.0	11.5	20.0
Bromoform	Ave	0.2638	0.2869	0.1000	54.4	50.0	8.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab Sample ID: CCV 160-333931/3 Calibration Date: 10/25/2017 15:35

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XCCV9505.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	4.124	4.843	0.1000	58.7	50.0	17.4	20.0
Bromobenzene	Ave	0.8021	0.8859	0.0100	55.2	50.0	10.5	20.0
N-Propylbenzene	Ave	5.138	6.144	0.0100	59.8	50.0	19.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5745	0.5691	0.3000	49.5	50.0	-0.9	20.0
2-Chlorotoluene	Ave	2.931	3.418	0.0100	58.3	50.0	16.6	20.0
1,2,3-Trichloropropane	Ave	0.1589	0.1603	0.0100	50.4	50.0	0.8	20.0
1,3,5-Trimethylbenzene	Ave	3.246	3.724	0.0100	57.4	50.0	14.7	20.0
Cyclohexanone	Lin1		0.0126	0.0010	413	500	-17.4	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1841	0.0100	52.7	50.0	5.4	20.0
4-Chlorotoluene	Ave	2.963	3.344	0.0100	56.4	50.0	12.8	20.0
tert-Butylbenzene	Ave	2.794	3.189	0.0100	57.1	50.0	14.1	20.0
1,2,4-Trimethylbenzene	Ave	3.225	3.667	0.0100	56.8	50.0	13.7	20.0
sec-Butylbenzene	Ave	4.598	5.181	0.0100	56.3	50.0	12.7	20.0
p-Isopropyltoluene	Ave	3.513	4.063	0.0100	57.8	50.0	15.7	20.0
1,3-Dichlorobenzene	Ave	1.680	1.770	0.6000	52.7	50.0	5.4	20.0
1,4-Dichlorobenzene	Ave	1.609	1.706	0.5000	53.0	50.0	6.0	20.0
1,2,3-Trimethylbenzene	Ave	3.015	3.256	0.0100	54.0	50.0	8.0	20.0
Benzyl chloride	Ave	0.1704	0.1941	0.0100	56.9	50.0	13.9	20.0
n-Butylbenzene	Ave	0.9154	1.073	0.0100	58.6	50.0	17.2	20.0
1,2-Dichlorobenzene	Ave	1.370	1.417	0.4000	51.7	50.0	3.4	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0635	0.0500	44.7	50.0	-10.5	20.0
1,3,5-Trichlorobenzene	Ave	1.077	1.239	0.0100	57.5	50.0	15.0	20.0
n-Nonyl Aldehyde	Lin1		0.2963	0.0100	45.7	50.0	-8.6	20.0
Hexachlorobutadiene	Ave	0.5002	0.5410	0.0100	54.1	50.0	8.2	20.0
1,2,4-Trichlorobenzene	Ave	0.7735	0.8931	0.2000	57.7	50.0	15.5	20.0
Naphthalene	Lin1		1.286	0.0100	47.2	50.0	-5.6	20.0
1,2,3-Trichlorobenzene	Ave	0.6483	0.7118	0.0100	54.9	50.0	9.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2013	0.1924	0.0100	47.8	50.0	-4.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1952	0.1955	0.0100	50.1	50.0	0.1	20.0
Toluene-d8 (Surr)	Ave	1.443	1.471	0.0100	51.0	50.0	1.9	20.0
4-Bromofluorobenzene (Surr)	Ave	1.073	1.073	0.0100	50.0	50.0	-0.0	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XCCV9505.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 25-Oct-2017 15:35:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-003
Misc. Info.: CCV
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 26-Oct-2017 16:33:56 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: hannj Date: 26-Oct-2017 16:33:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.877	1.877	0.000	99	310403	50.0	50.7	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.031	2.031	0.000	99	145943	50.0	51.9	
3 Chloromethane	50	2.079	2.079	0.000	99	429249	50.0	54.3	
4 Vinyl chloride	62	2.185	2.185	0.000	98	293420	50.0	47.2	
121 Butadiene	39	2.209	2.209	0.000	89	270302	50.0	52.1	
5 Bromomethane	94	2.576	2.576	0.000	92	118422	50.0	49.7	
6 Chloroethane	64	2.741	2.741	0.000	98	118718	50.0	51.9	
7 Trichlorofluoromethane	101	2.907	2.907	0.000	98	364222	50.0	57.0	
122 Dichlorofluoromethane	67	3.002	3.002	0.000	97	317608	50.0	53.1	
8 Ethyl ether	74	3.345	3.345	0.000	95	109640	50.0	45.6	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	96	263054	50.0	49.3	
11 Ethanol	45	3.593	3.593	0.000	26	60138	2000.0	2071.8	
10 Carbon disulfide	76	3.605	3.605	0.000	100	925359	50.0	51.4	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	95	196155	50.0	50.6	
13 Iodomethane	142	3.783	3.783	0.000	98	329142	50.0	49.0	
14 Acrolein	56	4.126	4.126	0.000	99	89469	250.0	224.3	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	93	281734	50.0	53.0	
16 Isopropyl alcohol	45	4.481	4.481	0.000	95	58841	500.0	437.8	
17 Methylene Chloride	84	4.516	4.516	0.000	99	239424	50.0	48.6	
18 Acetone	43	4.635	4.635	0.000	98	32007	50.0	44.7	
19 trans-1,2-Dichloroethene	96	4.777	4.777	0.000	97	265186	50.0	48.0	
20 Methyl acetate	74	4.859	4.859	0.000	98	32899	250.0	221.9	
21 Hexane	86	4.930	4.930	0.000	89	89207	50.0	52.9	
22 Methyl tert-butyl ether	73	5.001	5.001	0.000	95	352140	50.0	45.7	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	91	81013	500.0	392.2	
24 Acetonitrile	41	5.368	5.368	0.000	99	147017	500.0	544.7	
25 Isopropyl ether	45	5.629	5.629	0.000	94	720620	50.0	48.4	
27 2-Chloro-1,3-butadiene	53	5.711	5.711	0.000	93	495433	50.0	57.0	
28 1,1-Dichloroethane	63	5.747	5.747	0.000	96	491568	50.0	51.1	
S 26 1,2-Dichloroethene, Total	96				0			98.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.853	5.853	0.000	99	459342	500.0	540.8	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	96	529612	50.0	45.6	
31 Vinyl acetate	43	6.185	6.185	0.000	98	347766	50.0	54.2	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	81	264817	50.0	50.0	
33 2,2-Dichloropropane	77	6.682	6.682	0.000	93	274690	50.0	56.7	
34 Cyclohexane	84	6.788	6.788	0.000	93	446412	50.0	51.8	
35 Chlorobromomethane	128	6.812	6.812	0.000	93	92500	50.0	48.7	
36 Chloroform	83	6.942	6.942	0.000	95	426524	50.0	50.2	
37 Carbon tetrachloride	117	7.084	7.084	0.000	97	334103	50.0	52.1	
38 Tetrahydrofuran	71	7.155	7.155	0.000	90	19376	100.0	79.3	
39 Ethyl acetate	45	7.167	7.167	0.000	97	32749	100.0	93.6	
$ 41 Dibromofluoromethane (Surr	113	7.179	7.179	0.000	92	200114	50.0	47.8	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	97	389015	50.0	52.2	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	96	368480	50.0	52.4	
43 2-Butanone (MEK)	43	7.380	7.380	0.000	98	52928	50.0	55.1	
124 Isooctane	57	7.522	7.522	0.000	96	1277397	50.0	56.6	
117 n-Heptane	43	7.687	7.687	0.000	76	600064	50.0	60.7	
44 Benzene	78	7.687	7.687	0.000	97	1071302	50.0	49.9	
45 Propionitrile	54	7.758	7.758	0.000	95	168668	500.0	532.0	
46 Methacrylonitrile	41	7.782	7.782	0.000	93	793923	500.0	539.8	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	91	203266	50.0	50.1	
48 Tert-amyl methyl ether	73	7.889	7.889	0.000	92	384664	50.0	48.6	
49 1,2-Dichloroethane	62	7.960	7.960	0.000	96	250105	50.0	52.3	
50 Isobutyl alcohol	42	8.090	8.090	0.000	91	72005	1250.0	1175.1	
* 51 Fluorobenzene	96	8.244	8.244	0.000	99	1039993	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.433	0.000	92	490603	50.0	56.6	
53 Trichloroethene	95	8.457	8.457	0.000	98	285948	50.0	50.4	
54 n-Butanol	56	8.977	8.977	0.000	92	64808	1250.0	1040.4	
55 Dibromomethane	93	8.989	8.989	0.000	94	98424	50.0	49.4	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	93	244889	50.0	52.1	
123 Ethyl acrylate	55	9.214	9.214	0.000	97	147363	50.0	45.5	
57 Dichlorobromomethane	83	9.214	9.214	0.000	98	294971	50.0	52.6	
58 Methyl methacrylate	69	9.462	9.462	0.000	96	156544	100.0	85.9	
59 1,4-Dioxane	88	9.486	9.486	0.000	83	20555	1000.0	866.7	
60 2-Chloroethyl vinyl ether	63	9.971	9.971	0.000	91	37529	50.0	164.8	
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	94	326946	50.0	47.5	
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	921835	50.0	51.0	
63 Toluene	92	10.303	10.303	0.000	98	691686	50.0	52.6	
64 2-Nitropropane	43	10.610	10.610	0.000	97	53927	100.0	98.3	
65 Tetrachloroethene	164	10.764	10.764	0.000	95	212476	50.0	53.2	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.800	0.000	97	106043	50.0	47.5	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	94	260295	50.0	48.9	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	91	126480	50.0	49.9	
69 Ethyl methacrylate	69	11.036	11.036	0.000	85	154478	50.0	42.1	
70 Chlorodibromomethane	129	11.190	11.190	0.000	91	159366	50.0	51.7	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	94	265169	50.0	51.7	
72 Ethylene Dibromide	107	11.438	11.438	0.000	98	125945	50.0	50.0	
S 73 1,3-Dichloropropene, Total	75				0			96.5	
118 n-Butyl acetate	43	11.628	11.628	0.000	98	168015	50.0	43.7	
74 2-Hexanone	43	11.722	11.722	0.000	97	71721	50.0	45.6	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	89	626812	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	80	431179	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
77 Chlorobenzene	112	11.995	11.995	0.000	89	685570	50.0	52.7	
78 Ethylbenzene	91	12.030	12.030	0.000	96	1409639	50.0	57.5	
79 1,1,1,2-Tetrachloroethane	131	12.066	12.066	0.000	94	203940	50.0	52.7	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	97	484593	50.0	52.9	
82 o-Xylene	106	12.610	12.610	0.000	98	449165	50.0	53.1	
83 Styrene	104	12.657	12.657	0.000	96	695250	50.0	55.8	
84 Bromoform	173	12.681	12.681	0.000	95	73424	50.0	54.4	
85 Isopropylbenzene	105	12.906	12.906	0.000	97	1239196	50.0	58.7	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	274509	50.0	50.0	
87 Bromobenzene	156	13.273	13.273	0.000	94	226704	50.0	55.2	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	1572273	50.0	59.8	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	95	145630	50.0	49.5	
90 2-Chlorotoluene	91	13.438	13.438	0.000	95	874654	50.0	58.3	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	952953	50.0	57.4	
92 1,2,3-Trichloropropane	110	13.486	13.486	0.000	83	41006	50.0	50.4	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	89	47096	50.0	52.7	
94 Cyclohexanone	55	13.533	13.533	0.000	70	32279	500.0	412.8	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	855590	50.0	56.4	
96 tert-Butylbenzene	119	13.770	13.770	0.000	94	815964	50.0	57.1	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	98	938314	50.0	56.8	
98 sec-Butylbenzene	105	13.923	13.923	0.000	95	1325835	50.0	56.3	
99 4-Isopropyltoluene	119	14.054	14.054	0.000	97	1039745	50.0	57.8	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	452883	50.0	52.7	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	96	255890	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.196	14.196	0.000	93	436461	50.0	53.0	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	99	833119	50.0	54.0	
120 Benzyl chloride	126	14.420	14.420	0.000	89	49665	50.0	56.9	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	274548	50.0	58.6	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	362554	50.0	51.7	
105 1,2-Dibromo-3-Chloropropan	157	15.261	15.261	0.000	84	16256	50.0	44.7	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	54	75826	50.0	45.7	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	317158	50.0	57.5	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	138446	50.0	54.1	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	228539	50.0	57.7	
110 Naphthalene	128	16.112	16.112	0.000	97	329072	50.0	47.2	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	182148	50.0	54.9	
S 112 Xylenes, Total	106				0			106.0	
S 113 Trihalomethanes, Total	1				0			208.8	

Reagents:

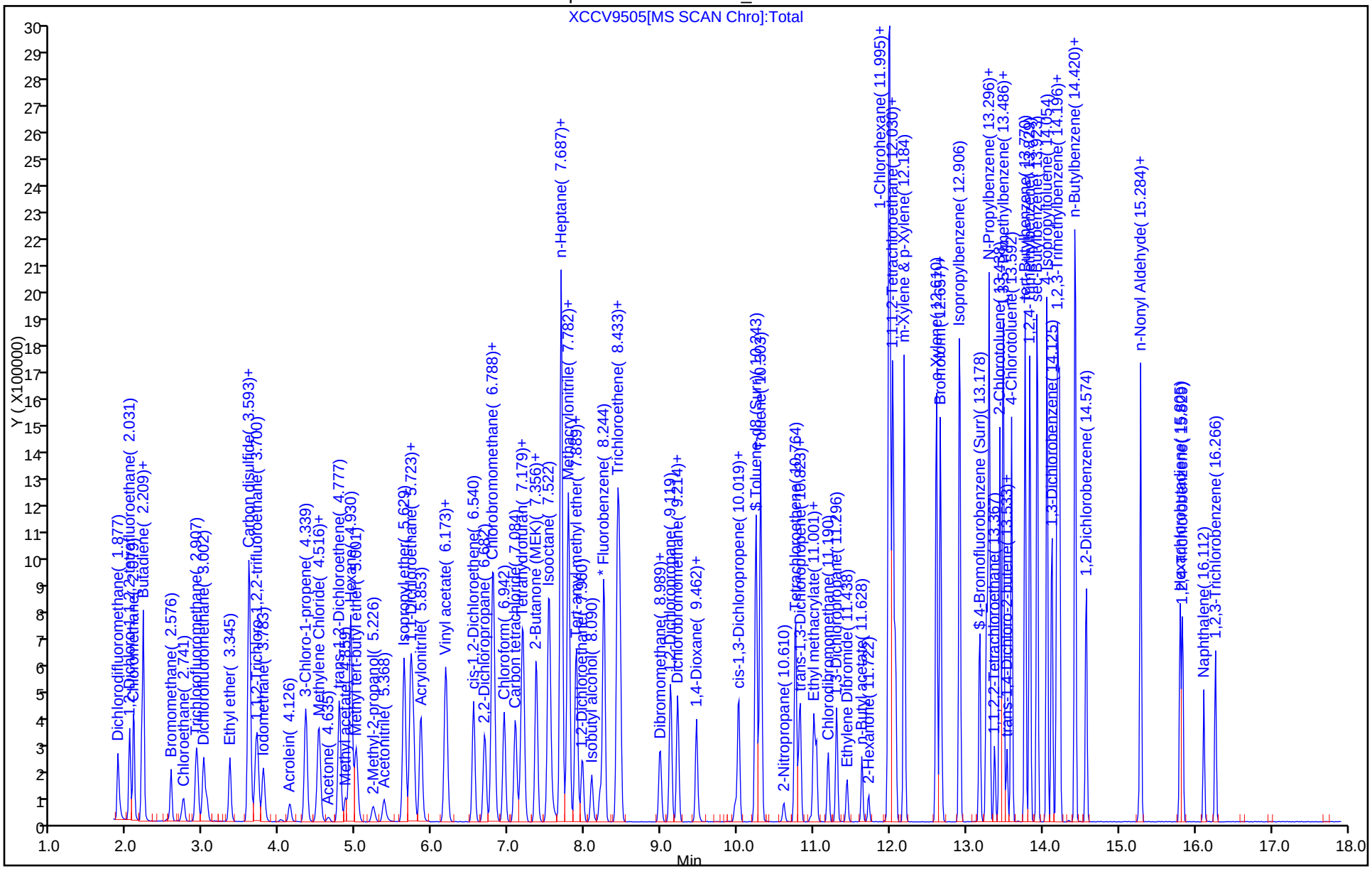
8260 NewWkMix_00243	Amount Added: 10.00	Units: uL	
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 26-Oct-2017 16:33:58 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XCCV9505.D

Injection Date:	25-Oct-2017 15:35:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	CCV			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		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab Sample ID: CCVC 160-333931/15 Calibration Date: 10/25/2017 21:37

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XCCV9517.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	0.2943	0.2833	0.1000	48.1	50.0	-3.7	50.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1353	0.1311	0.0100	48.5	50.0	-3.1	50.0
Chloromethane	Ave	0.3799	0.3834	0.1000	50.5	50.0	0.9	50.0
Vinyl chloride	Ave	0.2987	0.2677	0.1000	44.8	50.0	-10.4	50.0
Butadiene	Ave	0.2494	0.2332	0.0100	46.8	50.0	-6.5	50.0
Bromomethane	Ave	0.1146	0.1076	0.1000	46.9	50.0	-6.1	50.0
Chloroethane	Ave	0.1099	0.1118	0.1000	50.8	50.0	1.7	50.0
Trichlorofluoromethane	Ave	0.3071	0.3108	0.1000	50.6	50.0	1.2	50.0
Dichlorofluoromethane	Ave	0.2877	0.2885	0.0100	50.1	50.0	0.3	50.0
Ethyl ether	Ave	0.1157	0.1070	0.0100	46.3	50.0	-7.5	50.0
1,1-Dichloroethene	Ave	0.2566	0.2484	0.1000	48.4	50.0	-3.2	50.0
Carbon disulfide	Ave	0.8649	0.8415	0.1000	48.6	50.0	-2.7	50.0
Ethanol	Lin1		0.0016*	0.0100	2220	2000	10.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1865	0.1819	0.1000	48.8	50.0	-2.5	50.0
Iodomethane	Ave	0.3230	0.3098	0.0100	48.0	50.0	-4.1	50.0
Acrolein	Lin1		0.0169	0.0010	221	250	-11.7	50.0
3-Chloro-1-propene	Ave	0.2556	0.2686	0.0100	52.5	50.0	5.1	50.0
Isopropyl alcohol	Lin1		0.0069*	0.0100	529	500	5.7	50.0
Methylene Chloride	Ave	0.2369	0.2247	0.1000	47.4	50.0	-5.2	50.0
Acetone	Ave	0.0344	0.0337*	0.1000	48.9	50.0	-2.2	50.0
trans-1,2-Dichloroethene	Ave	0.2653	0.2524	0.1000	47.6	50.0	-4.9	50.0
Methyl acetate	Lin1		0.0070*	0.1000	245	250	-1.9	50.0
Hexane	Ave	0.0811	0.0845	0.0100	52.1	50.0	4.3	50.0
Methyl tert-butyl ether	Ave	0.3706	0.3748	0.1000	50.6	50.0	1.2	50.0
2-Methyl-2-propanol	Lin1		0.0097*	0.0100	482	500	-3.7	50.0
Acetonitrile	Ave	0.0130	0.0145	0.0010	558	500	11.7	50.0
Isopropyl ether	Lin1		0.7604	0.0100	52.8	50.0	5.6	50.0
2-Chloro-1,3-butadiene	Ave	0.4180	0.4774	0.0100	57.1	50.0	14.2	50.0
1,1-Dichloroethane	Ave	0.4623	0.4624	0.2000	50.0	50.0	0.0	50.0
Acrylonitrile	Ave	0.0408	0.0457	0.0100	560	500	11.9	50.0
Tert-butyl ethyl ether	Lin1		0.5636	0.0100	50.2	50.0	0.4	50.0
Vinyl acetate	Ave	0.3085	0.3302	0.0100	53.5	50.0	7.0	50.0
cis-1,2-Dichloroethene	Ave	0.2548	0.2546	0.1000	50.0	50.0	-0.0	50.0
2,2-Dichloropropane	Ave	0.2329	0.2346	0.0100	50.4	50.0	0.7	50.0
Cyclohexane	Ave	0.4140	0.4261	0.1000	51.5	50.0	2.9	50.0
Bromochloromethane	Ave	0.0913	0.0879	0.0100	48.2	50.0	-3.7	50.0
Chloroform	Ave	0.4089	0.4035	0.2000	49.3	50.0	-1.3	50.0
Carbon tetrachloride	Ave	0.3085	0.3124	0.1000	50.6	50.0	1.3	50.0
Ethyl acetate	Lin1		0.0172	0.0100	102	100	1.9	50.0
1,1,1-Trichloroethane	Ave	0.3580	0.3695	0.1000	51.6	50.0	3.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab Sample ID: CCVC 160-333931/15 Calibration Date: 10/25/2017 21:37

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XCCV9517.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	0.3383	0.3521	0.0100	52.0	50.0	4.1	50.0
2-Butanone (MEK)	Ave	0.0462	0.0551*	0.1000	59.7	50.0	19.4	50.0
Isooctane	Ave	1.085	1.221	0.0100	56.3	50.0	12.5	50.0
n-Heptane	Ave	0.4751	0.5601	0.0100	58.9	50.0	17.9	50.0
Benzene	Ave	1.031	0.9908	0.5000	48.0	50.0	-3.9	50.0
Propionitrile	Ave	0.0152	0.0167	0.0010	547	500	9.4	50.0
Methacrylonitrile	Ave	0.0707	0.0787	0.0100	556	500	11.3	50.0
Tert-amyl methyl ether	Ave	0.3803	0.4007	0.0100	52.7	50.0	5.4	50.0
1,2-Dichloroethane	Ave	0.2298	0.2411	0.1000	52.5	50.0	4.9	50.0
Isobutyl alcohol	Lin1		0.0032	0.0010	1330	1250	6.2	50.0
Methylcyclohexane	Ave	0.4166	0.4604	0.1000	55.3	50.0	10.5	50.0
Trichloroethene	Ave	0.2730	0.2671	0.2000	48.9	50.0	-2.2	50.0
n-Butanol	Lin		0.0029*	0.0100	1180	1250	-5.4	50.0
Dibromomethane	Ave	0.0958	0.0960	0.0100	50.1	50.0	0.3	50.0
1,2-Dichloropropane	Ave	0.2258	0.2369	0.1000	52.5	50.0	4.9	50.0
Ethyl acrylate	Lin1		0.1603	0.0100	51.0	50.0	2.0	50.0
Bromodichloromethane	Ave	0.2696	0.2812	0.2000	52.1	50.0	4.3	50.0
Methyl methacrylate	Lin1		0.0843	0.0100	95.4	100	-4.6	50.0
1,4-Dioxane	Lin1		0.0012	0.0010	993	1000	-0.7	50.0
2-Chloroethyl vinyl ether	Ave	0.0110	0.0388	0.0100	177	50.0	253.9*	50.0
cis-1,3-Dichloropropene	Lin1		0.3130	0.2000	47.3	50.0	-5.3	50.0
Toluene	Lin1		1.063	0.4000	50.6	50.0	1.3	50.0
2-Nitropropane	QuaF		0.0452	0.0100	103	100	2.7	50.0
Tetrachloroethene	Ave	0.3188	0.3174	0.2000	49.8	50.0	-0.4	50.0
4-Methyl-2-pentanone (MIBK)	Lin1		0.1866	0.1000	52.1	50.0	4.2	50.0
trans-1,3-Dichloropropene	Lin1		0.4143	0.1000	48.8	50.0	-2.4	50.0
1,1,2-Trichloroethane	Ave	0.2020	0.2033	0.1000	50.3	50.0	0.6	50.0
Ethyl methacrylate	Lin1		0.2736	0.0100	46.2	50.0	-7.5	50.0
Dibromochloromethane	Ave	0.2458	0.2521	0.1000	51.3	50.0	2.6	50.0
1,3-Dichloropropane	Ave	0.4094	0.4199	0.0100	51.3	50.0	2.6	50.0
1,2-Dibromoethane	Ave	0.2009	0.2067	0.1000	51.4	50.0	2.9	50.0
n-Butyl acetate	Lin		0.3150	0.0100	50.0	50.0	-0.0	50.0
2-Hexanone	Lin1		0.1330	0.1000	52.4	50.0	4.8	50.0
1-Chlorohexane	Ave	0.6958	0.6301	0.0100	45.3	50.0	-9.4	50.0
Chlorobenzene	Ave	1.037	1.055	0.5000	50.9	50.0	1.8	50.0
Ethylbenzene	Ave	1.955	2.165	0.1000	55.4	50.0	10.7	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3089	0.3117	0.0100	50.5	50.0	0.9	50.0
m,p-Xylenes	Lin1		0.7459	0.1000	51.1	50.0	2.2	50.0
o-Xylene	Lin1		0.6864	0.3000	50.9	50.0	1.8	50.0
Styrene	Ave	0.9945	1.082	0.3000	54.4	50.0	8.8	50.0
Bromoform	Ave	0.2638	0.2812	0.1000	53.3	50.0	6.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Lab Sample ID: CCVC 160-333931/15 Calibration Date: 10/25/2017 21:37

Instrument ID: VMSX Calib Start Date: 09/14/2017 22:55

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 09/15/2017 01:49

Lab File ID: XCCV9517.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	4.124	4.751	0.1000	57.6	50.0	15.2	50.0
Bromobenzene	Ave	0.8021	0.8646	0.0100	53.9	50.0	7.8	50.0
N-Propylbenzene	Ave	5.138	5.809	0.0100	56.5	50.0	13.0	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5745	0.5883	0.3000	51.2	50.0	2.4	50.0
2-Chlorotoluene	Ave	2.931	3.288	0.0100	56.1	50.0	12.2	50.0
1,3,5-Trimethylbenzene	Ave	3.246	3.579	0.0100	55.1	50.0	10.2	50.0
1,2,3-Trichloropropane	Ave	0.1589	0.1599	0.0100	50.3	50.0	0.6	50.0
Cyclohexanone	Lin1		0.0133	0.0010	432	500	-13.6	50.0
trans-1,4-Dichloro-2-butene	Lin1		0.1740	0.0100	50.0	50.0	-0.0	50.0
4-Chlorotoluene	Ave	2.963	3.255	0.0100	54.9	50.0	9.9	50.0
tert-Butylbenzene	Ave	2.794	3.162	0.0100	56.6	50.0	13.2	50.0
1,2,4-Trimethylbenzene	Ave	3.225	3.548	0.0100	55.0	50.0	10.0	50.0
sec-Butylbenzene	Ave	4.598	5.031	0.0100	54.7	50.0	9.4	50.0
p-Isopropyltoluene	Ave	3.513	3.879	0.0100	55.2	50.0	10.4	50.0
1,3-Dichlorobenzene	Ave	1.680	1.692	0.6000	50.4	50.0	0.8	50.0
1,4-Dichlorobenzene	Ave	1.609	1.624	0.5000	50.4	50.0	0.9	50.0
1,2,3-Trimethylbenzene	Ave	3.015	3.184	0.0100	52.8	50.0	5.6	50.0
Benzyl chloride	Ave	0.1704	0.1560	0.0100	45.8	50.0	-8.5	50.0
n-Butylbenzene	Ave	0.9154	0.997	0.0100	54.4	50.0	8.9	50.0
1,2-Dichlorobenzene	Ave	1.370	1.412	0.4000	51.5	50.0	3.1	50.0
1,2-Dibromo-3-Chloropropane	Lin1		0.0666	0.0500	46.8	50.0	-6.5	50.0
1,3,5-Trichlorobenzene	Ave	1.077	1.137	0.0100	52.8	50.0	5.5	50.0
n-Nonyl Aldehyde	Lin1		0.3551	0.0100	54.0	50.0	8.1	50.0
Hexachlorobutadiene	Ave	0.5002	0.5109	0.0100	51.1	50.0	2.2	50.0
1,2,4-Trichlorobenzene	Ave	0.7735	0.8670	0.2000	56.0	50.0	12.1	50.0
Naphthalene	Lin1		1.434	0.0100	52.4	50.0	4.7	50.0
1,2,3-Trichlorobenzene	Ave	0.6483	0.7390	0.0100	57.0	50.0	14.0	50.0
Dibromofluoromethane (Surr)	Ave	0.2013	0.1956	0.0100	48.6	50.0	-2.8	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1952	0.1975	0.0100	50.6	50.0	1.2	50.0
Toluene-d8 (Surr)	Ave	1.443	1.500	0.0100	52.0	50.0	4.0	50.0
4-Bromofluorobenzene (Surr)	Ave	1.073	1.128	0.0100	52.5	50.0	5.1	50.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XCCV9517.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 25-Oct-2017 21:37:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-015
Misc. Info.: CCVC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:28:15 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:28:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.877	1.877	0.000	99	318693	50.0	48.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.031	2.031	0.000	99	147533	50.0	48.5	
3 Chloromethane	50	2.090	2.090	0.000	99	431357	50.0	50.5	
4 Vinyl chloride	62	2.197	2.197	0.000	98	301205	50.0	44.8	
121 Butadiene	39	2.209	2.209	0.000	90	262350	50.0	46.8	
5 Bromomethane	94	2.576	2.576	0.000	92	121029	50.0	46.9	
6 Chloroethane	64	2.741	2.741	0.000	99	125749	50.0	50.8	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	99	349628	50.0	50.6	
122 Dichlorofluoromethane	67	3.013	3.013	0.000	97	324563	50.0	50.1	
8 Ethyl ether	74	3.345	3.345	0.000	96	120421	50.0	46.3	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	94	279401	50.0	48.4	
11 Ethanol	45	3.605	3.605	0.000	26	69755	2000.0	2216.0	
10 Carbon disulfide	76	3.605	3.605	0.000	100	946683	50.0	48.6	
12 1,1,2-Trichloro-1,2,2-trif	151	3.712	3.712	0.000	95	204574	50.0	48.8	
13 Iodomethane	142	3.794	3.794	0.000	98	348565	50.0	48.0	
14 Acrolein	56	4.138	4.138	0.000	100	95161	250.0	220.8	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	302167	50.0	52.5	
16 Isopropyl alcohol	45	4.493	4.493	0.000	96	77786	500.0	528.7	
17 Methylene Chloride	84	4.528	4.528	0.000	99	252812	50.0	47.4	
18 Acetone	43	4.646	4.646	0.000	100	37875	50.0	48.9	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	97	283984	50.0	47.6	
20 Methyl acetate	74	4.871	4.871	0.000	98	39471	250.0	245.1	
21 Hexane	86	4.942	4.942	0.000	89	95101	50.0	52.1	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	1	421680	50.0	50.6	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	97	109371	500.0	481.5	
24 Acetonitrile	41	5.380	5.380	0.000	100	163009	500.0	558.3	
25 Isopropyl ether	45	5.640	5.640	0.000	95	855386	50.0	52.8	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	93	537106	50.0	57.1	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	98	520233	50.0	50.0	
S 26 1,2-Dichloroethene, Total	96				0			97.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.853	5.853	0.000	99	514154	500.0	559.6	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	98	633980	50.0	50.2	
31 Vinyl acetate	43	6.196	6.196	0.000	97	371414	50.0	53.5	
32 cis-1,2-Dichloroethene	96	6.551	6.551	0.000	80	286388	50.0	50.0	
33 2,2-Dichloropropane	77	6.693	6.693	0.000	93	263914	50.0	50.4	
34 Cyclohexane	84	6.800	6.800	0.000	92	479328	50.0	51.5	
35 Chlorobromomethane	128	6.812	6.812	0.000	92	98923	50.0	48.2	
36 Chloroform	83	6.942	6.942	0.000	95	453903	50.0	49.3	
37 Carbon tetrachloride	117	7.096	7.096	0.000	98	351494	50.0	50.6	
38 Tetrahydrofuran	71	7.155	7.155	0.000	92	23572	100.0	88.1	
39 Ethyl acetate	45	7.167	7.167	0.000	96	38630	100.0	101.9	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.190	0.000	92	219989	50.0	48.6	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	98	415622	50.0	51.6	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	95	396150	50.0	52.0	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	99	62021	50.0	59.7	
124 Isooctane	57	7.534	7.534	0.000	96	1373127	50.0	56.3	
117 n-Heptane	43	7.687	7.687	0.000	77	630078	50.0	58.9	
44 Benzene	78	7.699	7.699	0.000	97	1114628	50.0	48.0	
45 Propionitrile	54	7.770	7.770	0.000	96	187688	500.0	547.2	
46 Methacrylonitrile	41	7.794	7.794	0.000	93	885037	500.0	556.3	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	94	222226	50.0	50.6	
48 Tert-amyl methyl ether	73	7.900	7.900	0.000	94	450724	50.0	52.7	
49 1,2-Dichloroethane	62	7.971	7.971	0.000	97	271239	50.0	52.5	
50 Isobutyl alcohol	42	8.090	8.090	0.000	93	88673	1250.0	1327.3	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	1124985	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.433	0.000	93	517944	50.0	55.3	
53 Trichloroethene	95	8.468	8.468	0.000	97	300453	50.0	48.9	
54 n-Butanol	56	8.977	8.977	0.000	90	81688	1250.0	1182.8	
55 Dibromomethane	93	8.989	8.989	0.000	95	108039	50.0	50.1	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	95	266467	50.0	52.5	
123 Ethyl acrylate	55	9.214	9.214	0.000	98	180371	50.0	51.0	
57 Dichlorobromomethane	83	9.226	9.226	0.000	98	316298	50.0	52.1	
58 Methyl methacrylate	69	9.462	9.462	0.000	95	189642	100.0	95.4	
59 1,4-Dioxane	88	9.486	9.486	0.000	77	25764	1000.0	992.7	
60 2-Chloroethyl vinyl ether	63	9.971	9.971	0.000	91	43597	50.0	176.9	
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	95	352169	50.0	47.3	
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	1019459	50.0	52.0	
63 Toluene	92	10.303	10.303	0.000	98	722168	50.0	50.6	
64 2-Nitropropane	43	10.610	10.610	0.000	97	61366	100.0	102.7	
65 Tetrachloroethene	164	10.764	10.764	0.000	94	215694	50.0	49.8	
66 4-Methyl-2-pentanone (MIBK	43	10.799	10.799	0.000	97	126836	50.0	52.1	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	95	281525	50.0	48.8	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	92	138168	50.0	50.3	
69 Ethyl methacrylate	69	11.036	11.036	0.000	89	185946	50.0	46.2	
70 Chlorodibromomethane	129	11.190	11.190	0.000	91	171308	50.0	51.3	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	94	285363	50.0	51.3	
72 Ethylene Dibromide	107	11.438	11.438	0.000	98	140486	50.0	51.4	
S 73 1,3-Dichloropropene, Total	75				0			96.1	
118 n-Butyl acetate	43	11.628	11.628	0.000	99	214071	50.0	50.0	
74 2-Hexanone	43	11.722	11.722	0.000	98	90382	50.0	52.4	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	89	679586	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	84	428205	50.0	45.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	11.995	11.995	0.000	97	717123	50.0	50.9	
78 Ethylbenzene	91	12.042	12.042	0.000	98	1471301	50.0	55.4	
79 1,1,1,2-Tetrachloroethane	131	12.066	12.066	0.000	94	211838	50.0	50.5	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	96	506893	50.0	51.1	
82 o-Xylene	106	12.610	12.610	0.000	98	466464	50.0	50.9	
83 Styrene	104	12.657	12.657	0.000	95	735627	50.0	54.4	
84 Bromoform	173	12.681	12.681	0.000	96	77313	50.0	53.3	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1306100	50.0	57.6	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	310156	50.0	52.5	
87 Bromobenzene	156	13.273	13.273	0.000	94	237685	50.0	53.9	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	1596960	50.0	56.5	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	94	161724	50.0	51.2	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	903978	50.0	56.1	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	983781	50.0	55.1	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	83	43962	50.0	50.3	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	88	47843	50.0	50.0	
94 Cyclohexanone	55	13.533	13.533	0.000	74	36436	500.0	431.9	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	894927	50.0	54.9	
96 tert-Butylbenzene	119	13.770	13.770	0.000	94	869366	50.0	56.6	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	98	975368	50.0	55.0	
98 sec-Butylbenzene	105	13.923	13.923	0.000	95	1383152	50.0	54.7	
99 4-Isopropyltoluene	119	14.054	14.054	0.000	97	1066277	50.0	55.2	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	465280	50.0	50.4	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	274910	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	94	446359	50.0	50.4	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	99	875208	50.0	52.8	
120 Benzyl chloride	126	14.420	14.420	0.000	89	42888	50.0	45.8	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	274020	50.0	54.4	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	388175	50.0	51.5	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	84	18312	50.0	46.8	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	59	97630	50.0	54.0	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	312533	50.0	52.8	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	95	140460	50.0	51.1	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	94	238349	50.0	56.0	
110 Naphthalene	128	16.112	16.112	0.000	97	394251	50.0	52.4	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	203159	50.0	57.0	
S 112 Xylenes, Total	106				0			102.0	
S 113 Trihalomethanes, Total	1				0			206.1	

Reagents:

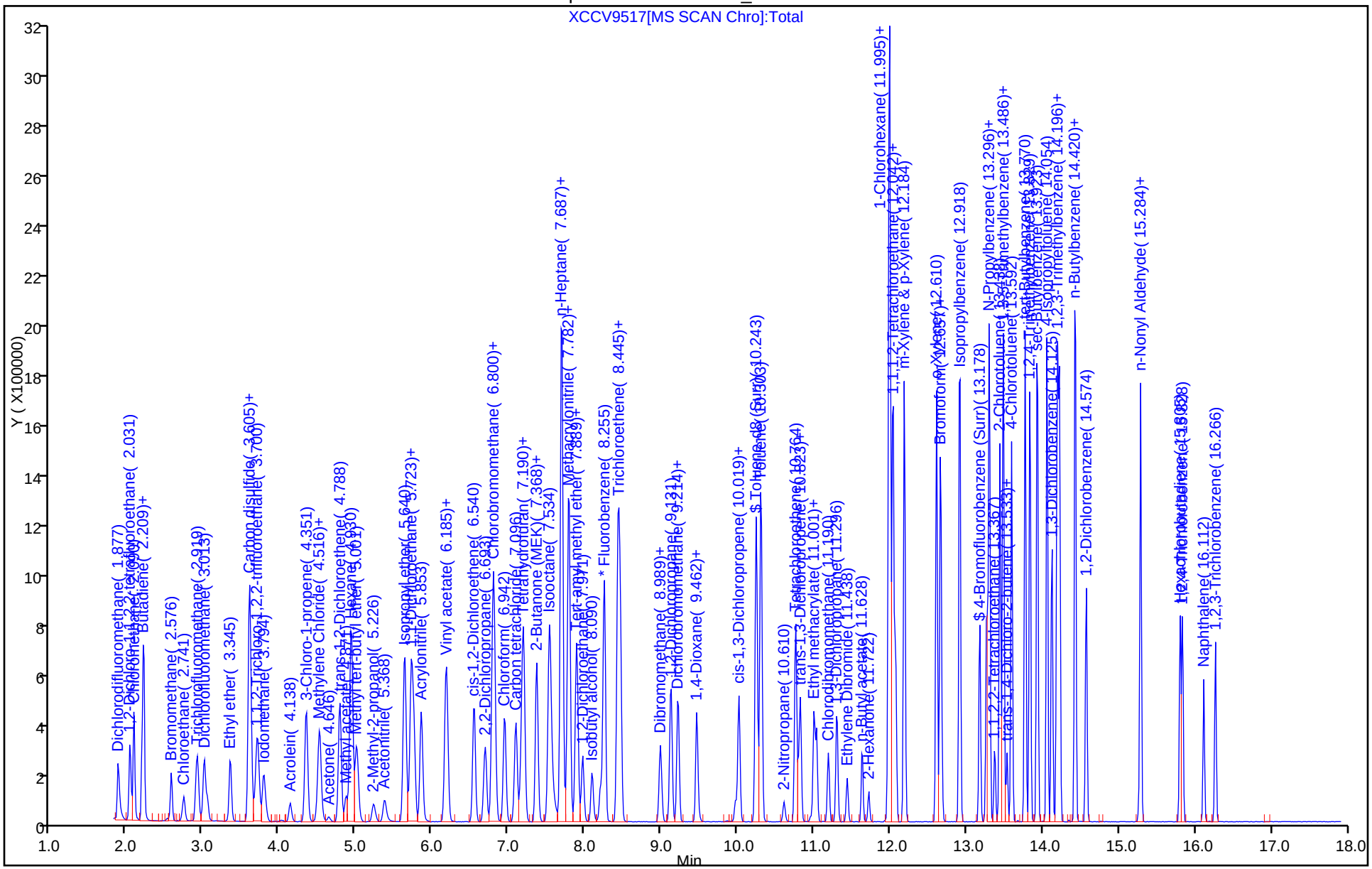
8260 NewWkMix_00243	Amount Added: 10.00	Units: uL	
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 31-Oct-2017 16:28:16 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XCCV9517.D

Injection Date:	25-Oct-2017 21:37:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	CCVC			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XBFB8773.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 14-Sep-2017 22:23:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: 160-0011418-002
Misc. Info.: BFB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 18-Sep-2017 16:30:36 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: hannj Date: 18-Sep-2017 16:30:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 114 BFB	95	3.942	3.942	0.000	0	171929	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

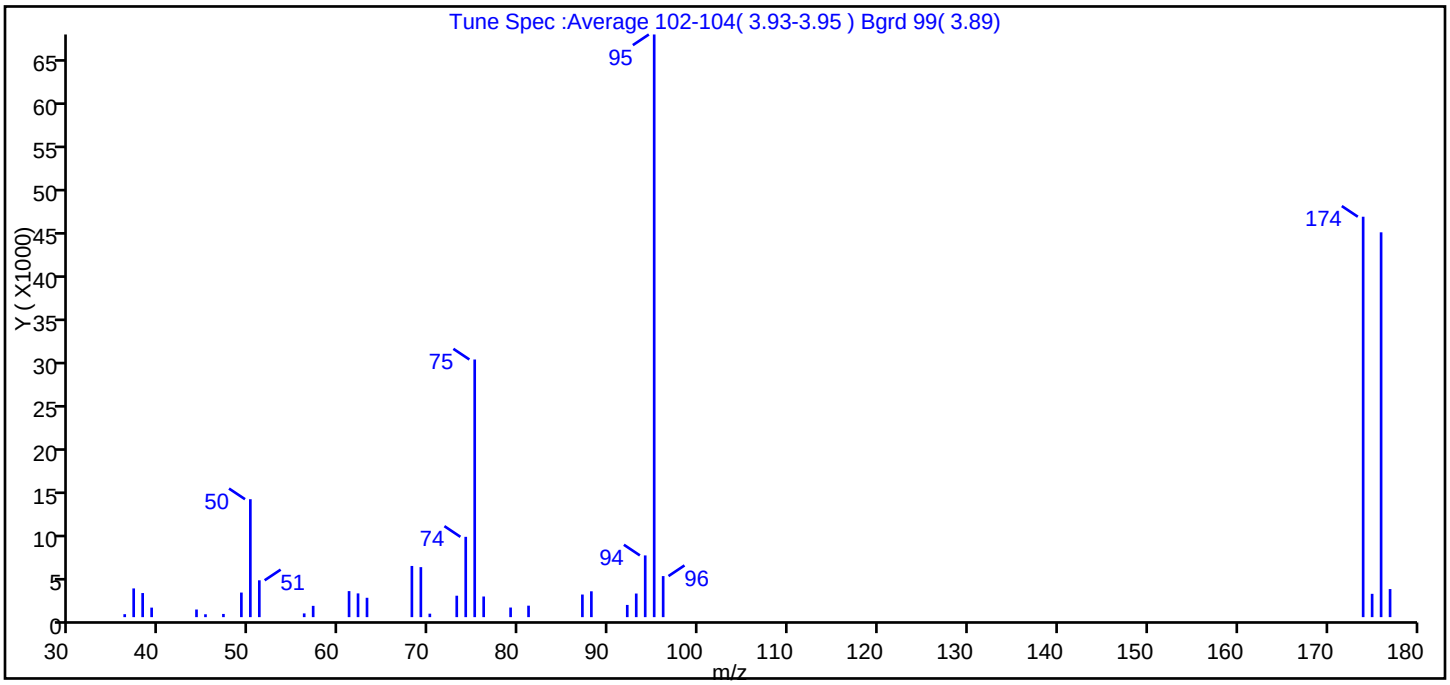
BFB_00074 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XBFB8773.D
Injection Date: 14-Sep-2017 22:23:30 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	20.2
75	30 to 60% of m/z 95	44.2
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	68.7
175	5 to 9% of m/z 174	4.0 (5.8)
176	Greater than 95% but less than 101% of m/z 174	66.0 (96.1)
177	5 to 9% of m/z 176	4.8 (7.3)

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XBFB8773.D\5mL-8260-MSX.rslt\spectra.d
Injection Date: 14-Sep-2017 22:23:30
Spectrum: Tune Spec :Average 102-104(3.93-3.95) Bgrd 99(3.89)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 35

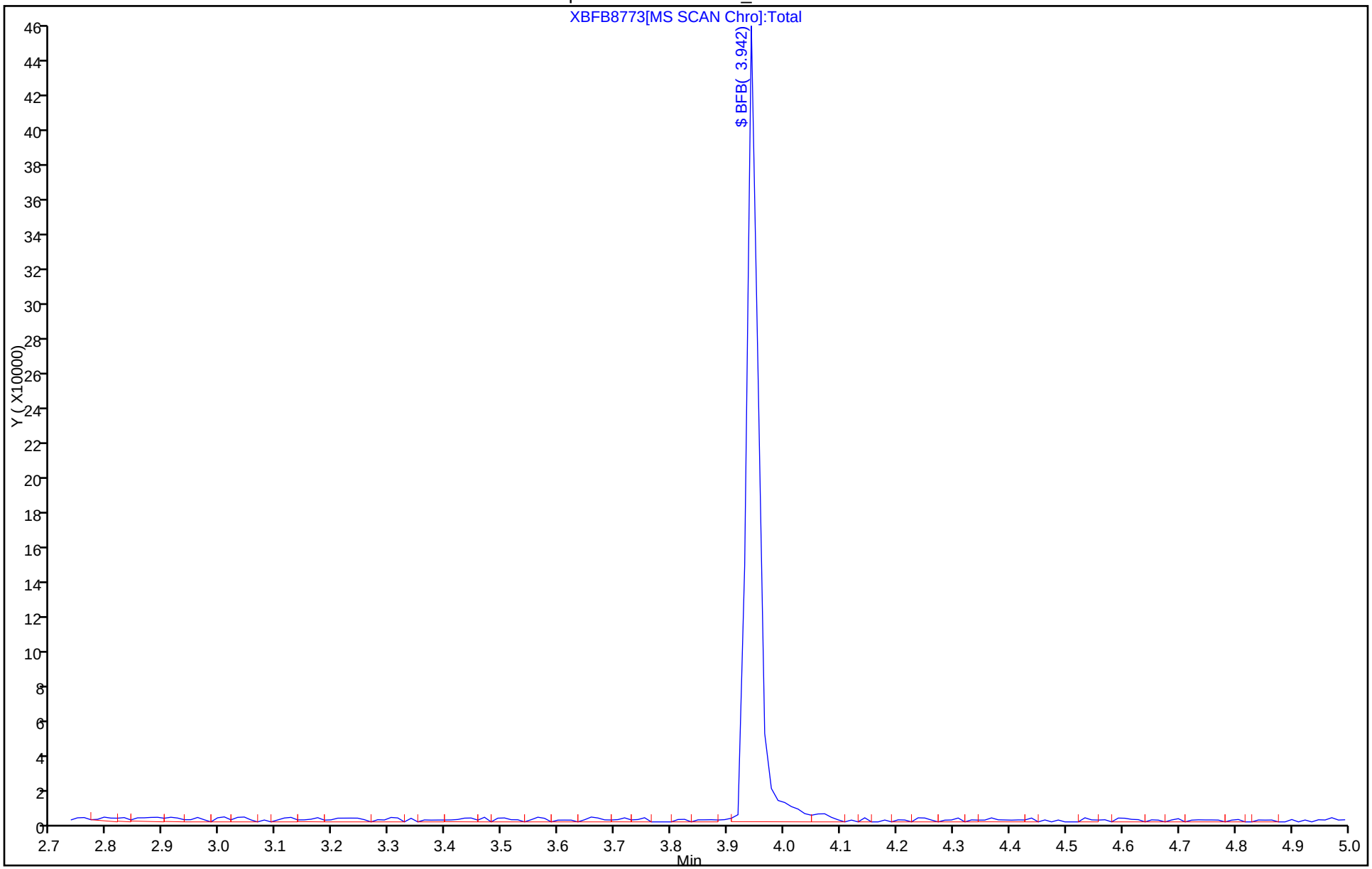
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	346	51.00	4292	73.00	2497	93.00	2751
37.00	3346	56.00	435	74.00	9356	94.00	7191
38.00	2807	57.00	1316	75.00	30016	95.00	67880
39.00	1110	61.00	3033	76.00	2405	96.00	4783
44.00	890	62.00	2767	79.00	1120	174.00	46648
45.00	335	63.00	2256	81.00	1337	175.00	2716
47.00	373	68.00	5964	87.00	2635	176.00	44832
49.00	2865	69.00	5825	88.00	3012	177.00	3273
50.00	13739	70.00	405	92.00	1423		

Report Date: 18-Sep-2017 16:30:37 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XBFB8773.D

Injection Date:	14-Sep-2017 22:23:30	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\20171024-11757.b\XBFB9467.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 24-Oct-2017 19:22:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: 160-0011757-002
Misc. Info.: BFB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 13:50:58 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: hannj Date: 25-Oct-2017 13:50:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 114 BFB	95	3.942	3.942	0.000	0	142577	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

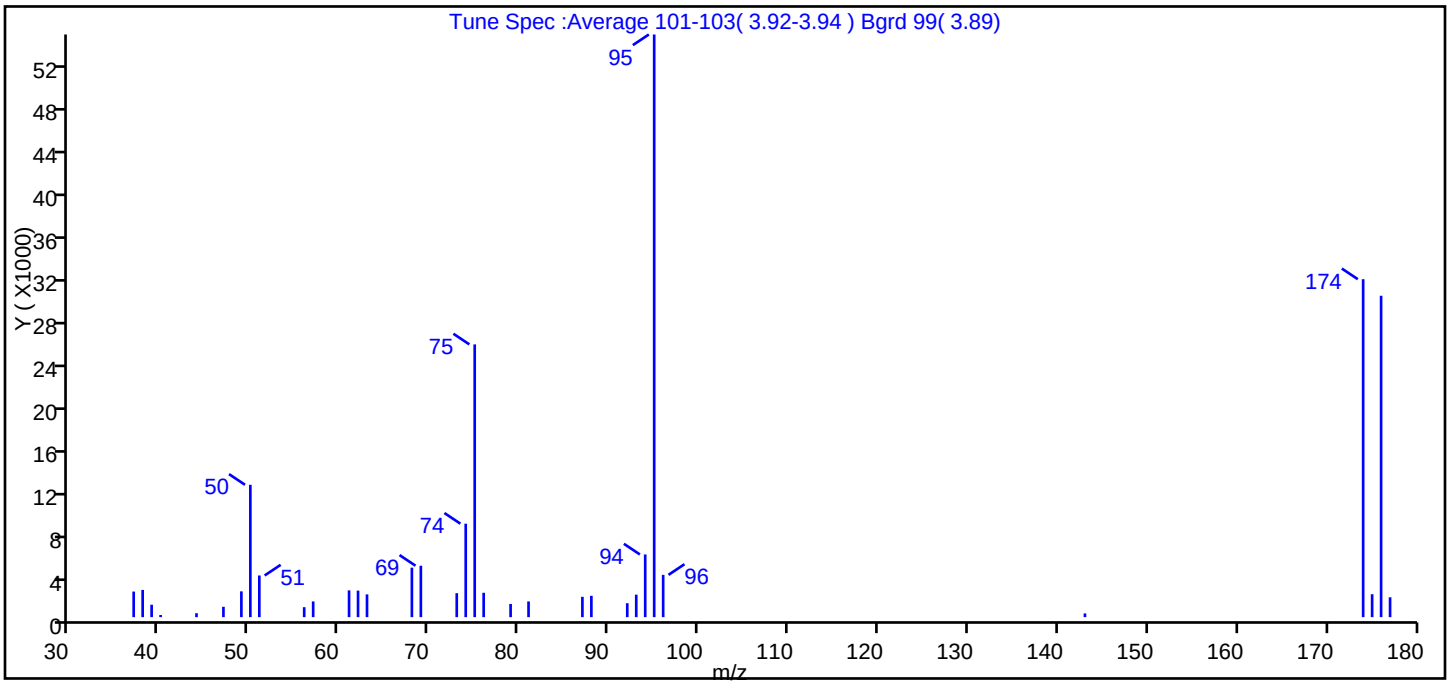
BFB_00075 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XBFB9467.D
Injection Date: 24-Oct-2017 19:22:30 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	22.7
75	30 to 60% of m/z 95	46.8
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	58.0
175	5 to 9% of m/z 174	3.9 (6.8)
176	Greater than 95% but less than 101% of m/z 174	55.2 (95.1)
177	5 to 9% of m/z 176	3.4 (6.2)

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XBFB9467.D\5mL-8260-MSX.rslt\spectra.d
Injection Date: 24-Oct-2017 19:22:30
Spectrum: Tune Spec :Average 101-103(3.92-3.94) Bgrd 99(3.89)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 34

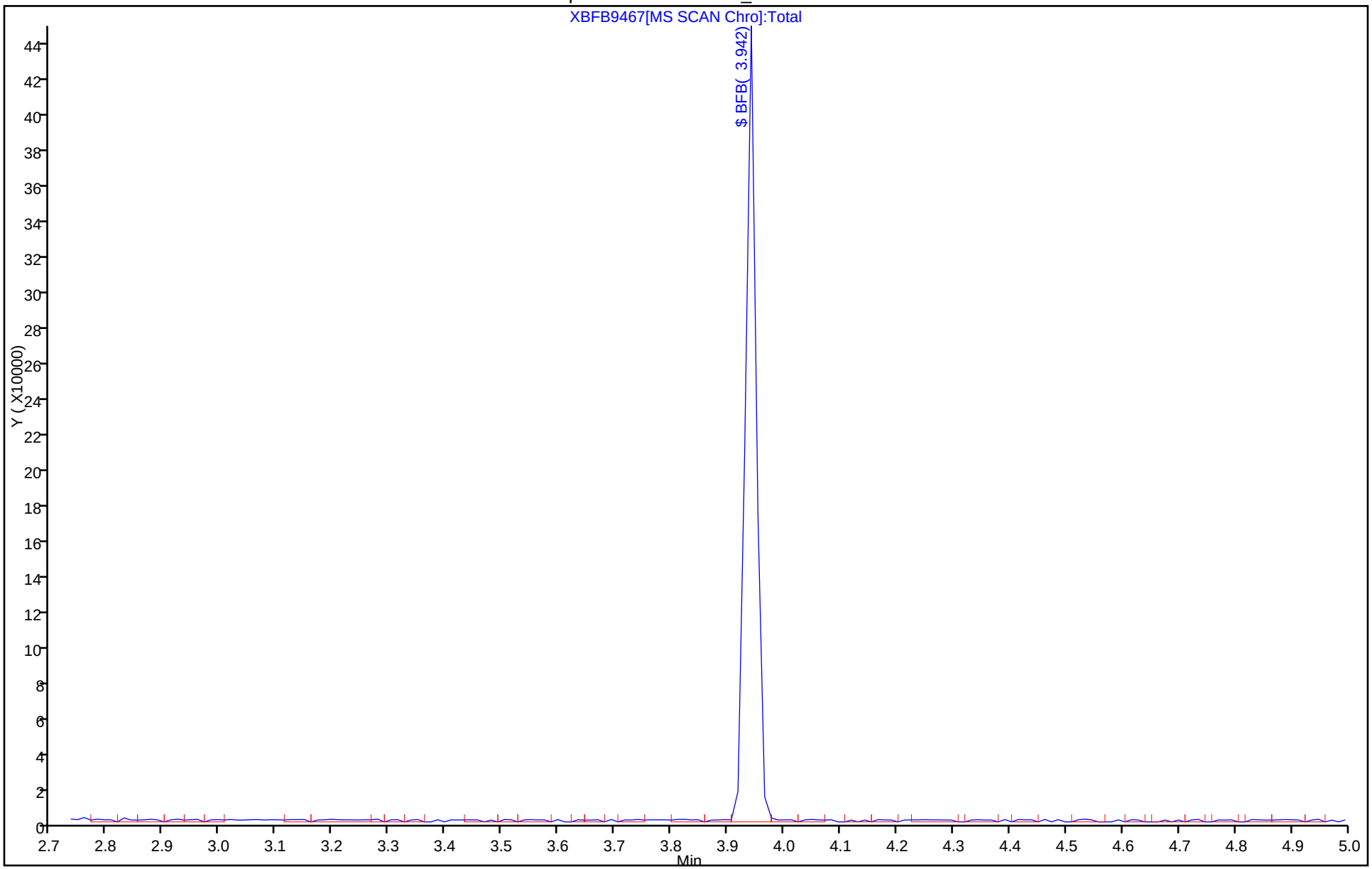
m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	2374	56.00	925	75.00	25304	95.00	54056
38.00	2524	57.00	1460	76.00	2261	96.00	3923
39.00	1153	61.00	2483	79.00	1223	143.00	345
40.00	196	62.00	2462	81.00	1458	174.00	31352
44.00	364	63.00	2111	87.00	1884	175.00	2128
47.00	960	68.00	4590	88.00	1978	176.00	29816
49.00	2393	69.00	4769	92.00	1292	177.00	1842
50.00	12279	73.00	2223	93.00	2084		
51.00	3865	74.00	8670	94.00	5815		

Report Date: 25-Oct-2017 13:50:59 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XBFB9467.D

Injection Date:	24-Oct-2017 19:22:30	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		



TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XBFB9504.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 25-Oct-2017 15:08:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: 160-0011764-002
Misc. Info.: BFB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 26-Oct-2017 16:14:57 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: hannj Date: 26-Oct-2017 16:14:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 114 BFB	95	3.942	3.942	0.000	0	152154	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

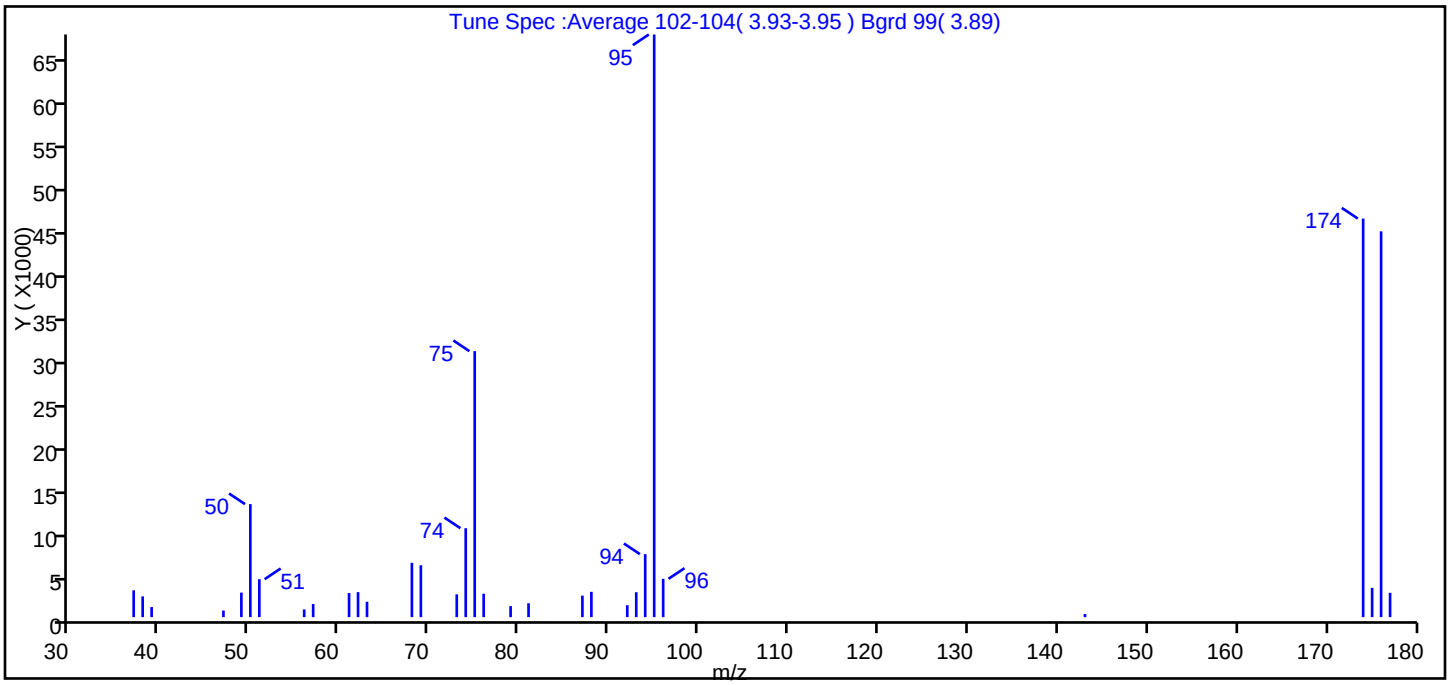
BFB_00075 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XBFB9504.D
Injection Date: 25-Oct-2017 15:08:30 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	19.4
75	30 to 60% of m/z 95	45.7
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	68.4
175	5 to 9% of m/z 174	5.0 (7.3)
176	Greater than 95% but less than 101% of m/z 174	66.2 (96.8)
177	5 to 9% of m/z 176	4.2 (6.3)

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XBFB9504.D\5mL-8260-MSX.rslt\spectra.d
Injection Date: 25-Oct-2017 15:08:30
Spectrum: Tune Spec :Average 102-104(3.93-3.95) Bgrd 99(3.89)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 32

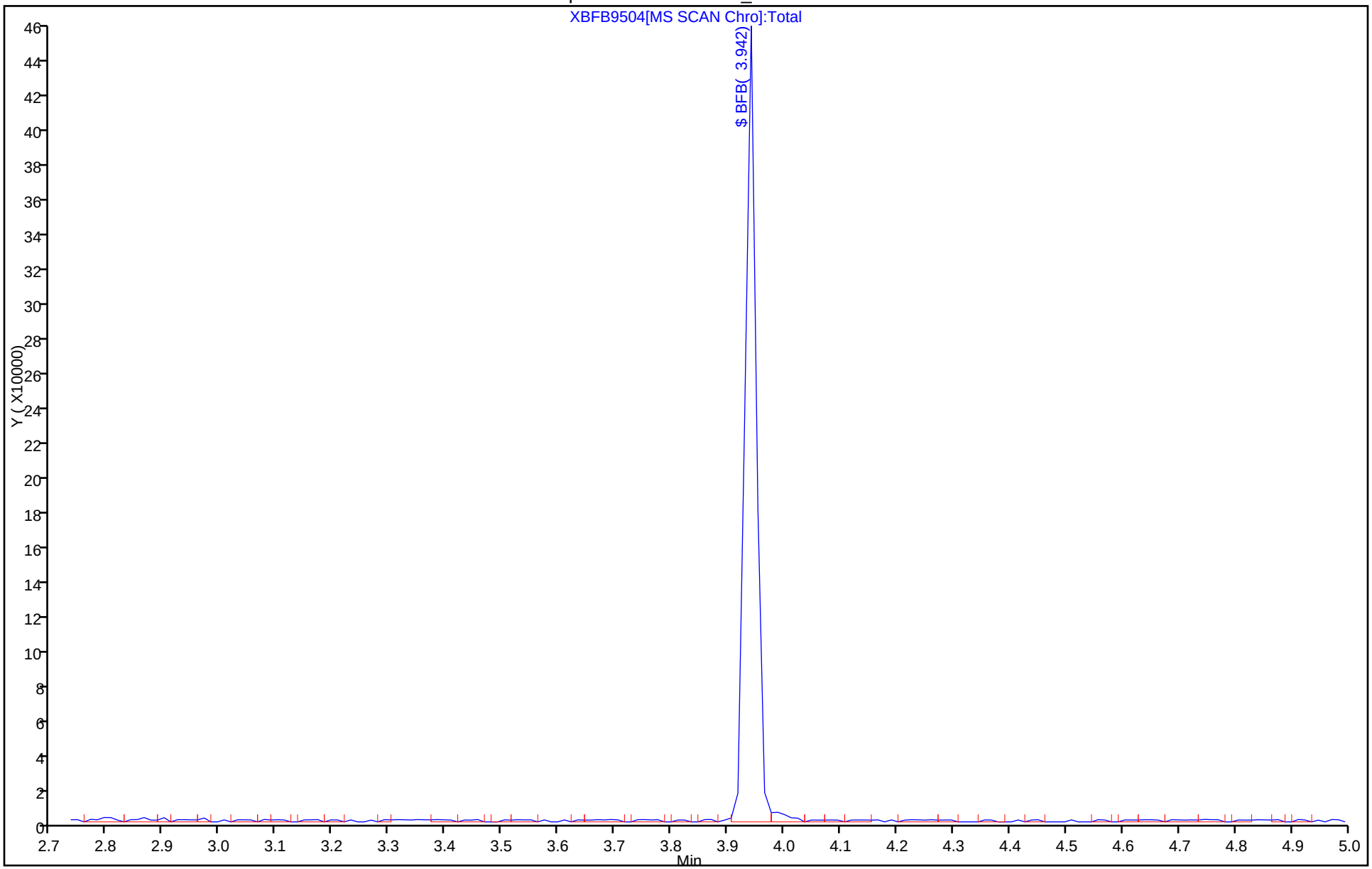
m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	3118	57.00	1520	75.00	30896	94.00	7317
38.00	2413	61.00	2798	76.00	2718	95.00	67680
39.00	1170	62.00	2908	79.00	1282	96.00	4448
47.00	768	63.00	1785	81.00	1612	143.00	365
49.00	2850	68.00	6313	87.00	2497	174.00	46296
50.00	13126	69.00	6030	88.00	2940	175.00	3397
51.00	4411	73.00	2646	92.00	1386	176.00	44816
56.00	898	74.00	10329	93.00	2895	177.00	2826

Report Date: 26-Oct-2017 16:14:58 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XBFB9504.D

Injection Date:	25-Oct-2017 15:08:30	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		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 160-333745/7

Matrix: Water | Lab File ID: XBLK9472.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 21:41

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | 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.: 280-102516-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 160-333745/7

Matrix: Water | Lab File ID: XBLK9472.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 21:41

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | 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)	106		81-118
460-00-4	4-Bromofluorobenzene (Surr)	97		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	102		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XBLK9472.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 24-Oct-2017 21:41:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-007
Misc. Info.: MB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:45:10 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:46:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877					ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.031					ND	
3 Chloromethane	50		2.090					ND	
4 Vinyl chloride	62		2.197					ND	
121 Butadiene	39		2.209					ND	
5 Bromomethane	94		2.576					ND	
6 Chloroethane	64		2.741					ND	
7 Trichlorofluoromethane	101		2.919					ND	
122 Dichlorofluoromethane	67		3.002					ND	
8 Ethyl ether	74		3.345					ND	
9 1,1-Dichloroethene	96		3.593					ND	
11 Ethanol	45		3.605					ND	
10 Carbon disulfide	76		3.605					ND	
12 1,1,2-Trichloro-1,2,2-trif	151		3.700					ND	
13 Iodomethane	142		3.794					ND	
14 Acrolein	56		4.138					ND	
15 3-Chloro-1-propene	39		4.339					ND	
16 Isopropyl alcohol	45		4.493					ND	
17 Methylene Chloride	84		4.516					ND	
18 Acetone	43		4.635					ND	
19 trans-1,2-Dichloroethene	96		4.788					ND	
20 Methyl acetate	74		4.871					ND	
21 Hexane	86		4.930					ND	
22 Methyl tert-butyl ether	73		5.013					ND	
23 2-Methyl-2-propanol	59		5.226					ND	
24 Acetonitrile	41		5.368					ND	
25 Isopropyl ether	45		5.640					ND	
27 2-Chloro-1,3-butadiene	53		5.723					ND	
28 1,1-Dichloroethane	63		5.759					ND	
S 26 1,2-Dichloroethene, Total	96		5.816					ND	
29 Acrylonitrile	53		5.853					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		6.173					ND	
31 Vinyl acetate	43		6.197					ND	
32 cis-1,2-Dichloroethene	96		6.540					ND	
33 2,2-Dichloropropane	77		6.693					ND	
34 Cyclohexane	84		6.800					ND	
35 Chlorobromomethane	128		6.812					ND	
36 Chloroform	83		6.942					ND	
37 Carbon tetrachloride	117		7.096					ND	
38 Tetrahydrofuran	71		7.155					ND	
39 Ethyl acetate	45		7.167					ND	
40 1,1,1-Trichloroethane	97		7.190					ND	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.190	0.001	92	211196	50.0	50.6	
42 1,1-Dichloropropene	75		7.368					ND	
43 2-Butanone (MEK)	43		7.392					ND	
124 Isooctane	57		7.534					ND	
117 n-Heptane	43		7.687					ND	
44 Benzene	78		7.687					ND	
45 Propionitrile	54		7.758					ND	
46 Methacrylonitrile	41		7.782					ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	33	214511	50.0	53.0	
48 Tert-amyl methyl ether	73		7.889					ND	
49 1,2-Dichloroethane	62		7.971					ND	
50 Isobutyl alcohol	42		8.090					ND	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	1036863	50.0	50.0	
125 1,4-Difluorobenzene	114		8.427					ND	
52 Methylcyclohexane	55		8.433					ND	
53 Trichloroethene	95		8.457					ND	
A 126 C6-C12	1	8.921	(3.966-13.876)		0	437622			NC
54 n-Butanol	56		8.977					ND	
55 Dibromomethane	93		8.989					ND	
56 1,2-Dichloropropane	63		9.131					ND	
123 Ethyl acrylate	55		9.214					ND	
57 Dichlorobromomethane	83		9.214					ND	
58 Methyl methacrylate	69		9.462					ND	
59 1,4-Dioxane	88		9.486					ND	
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63		9.971					ND	
61 cis-1,3-Dichloropropene	75		10.019					ND	
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	898896	50.0	50.8	
63 Toluene	92		10.303					ND	
64 2-Nitropropane	43		10.610					ND	
65 Tetrachloroethene	164		10.764					ND	
66 4-Methyl-2-pentanone (MIBK	43		10.800					ND	
67 trans-1,3-Dichloropropene	75		10.823					ND	
68 1,1,2-Trichloroethane	83		11.001					ND	
69 Ethyl methacrylate	69		11.036					ND	
70 Chlorodibromomethane	129		11.190					ND	
71 1,3-Dichloropropane	76		11.296					ND	
72 Ethylene Dibromide	107		11.438					ND	
S 73 1,3-Dichloropropene, Total	75		11.620					ND	
118 n-Butyl acetate	43		11.628					ND	
74 2-Hexanone	43		11.722					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	11.983	11.983	0.000	88	613184	50.0	50.0	
75 1-Chlorohexane	91		11.995					ND	
77 Chlorobenzene	112		11.995					ND	
78 Ethylbenzene	91		12.042					ND	
79 1,1,1,2-Tetrachloroethane	131		12.066					ND	
80 m-Xylene & p-Xylene	106		12.184					ND	
82 o-Xylene	106		12.610					ND	
83 Styrene	104		12.657					ND	
84 Bromoform	173		12.681					ND	
85 Isopropylbenzene	105		12.918					ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	83	260889	50.0	48.6	
87 Bromobenzene	156		13.273					ND	
88 N-Propylbenzene	91		13.296					ND	
89 1,1,2,2-Tetrachloroethane	83		13.367					ND	
90 2-Chlorotoluene	91		13.438					ND	
91 1,3,5-Trimethylbenzene	105		13.486					ND	
92 1,2,3-Trichloropropane	110		13.497					ND	
93 trans-1,4-Dichloro-2-buten	53		13.533					ND	
94 Cyclohexanone	55		13.533					ND	
95 4-Chlorotoluene	91		13.592					ND	
96 tert-Butylbenzene	119		13.770					ND	
81 Pentachloroethane	167		13.776					ND	
97 1,2,4-Trimethylbenzene	105		13.829					ND	
98 sec-Butylbenzene	105		13.923					ND	
99 4-Isopropyltoluene	119		14.054					ND	
100 1,3-Dichlorobenzene	146		14.125					ND	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	98	249881	50.0	50.0	
102 1,4-Dichlorobenzene	146		14.207					ND	
119 1,2,3-Trimethylbenzene	105		14.219					ND	
120 Benzyl chloride	126		14.420					ND	
103 n-Butylbenzene	134		14.432					ND	
104 1,2-Dichlorobenzene	146		14.574					ND	
105 1,2-Dibromo-3-Chloropropan	157		15.261					ND	
106 n-Nonyl Aldehyde	57		15.284					ND	
107 1,3,5-Trichlorobenzene	180		15.284					ND	
108 Hexachlorobutadiene	225		15.805					ND	
109 1,2,4-Trichlorobenzene	180		15.840					ND	
110 Naphthalene	128		16.112					ND	
111 1,2,3-Trichlorobenzene	180		16.266					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:

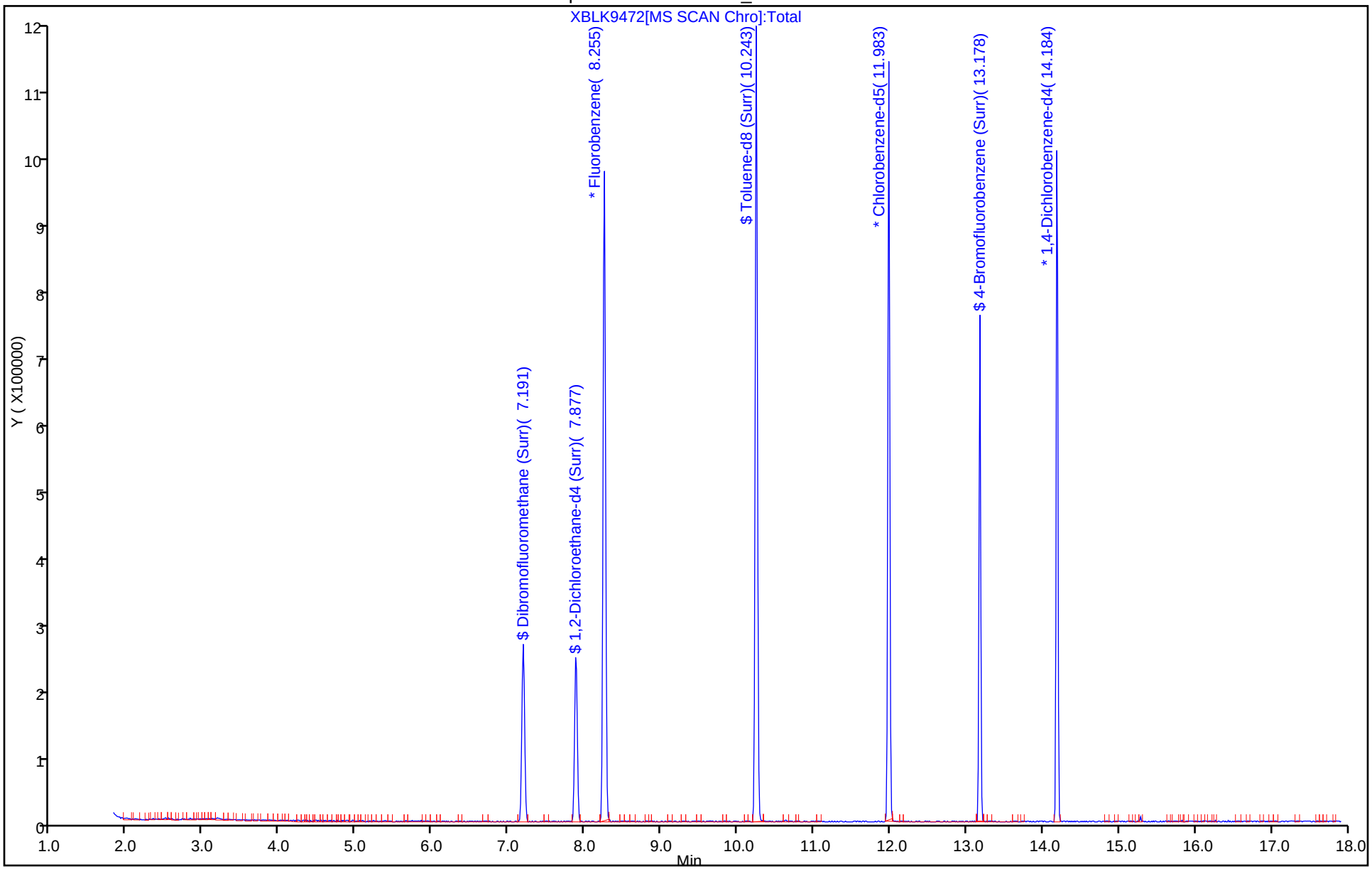
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 25-Oct-2017 21:46:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XBLK9472.D

Injection Date:	24-Oct-2017 21:41:30	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\20171024-11757.b\XBLK9472.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 24-Oct-2017 21:41:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-007
Misc. Info.: MB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:45:10 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:46:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.6	101.20
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	53.0	105.98
$ 62 Toluene-d8 (Surr)	50.0	50.8	101.61
$ 86 4-Bromofluorobenzene (Surr)	50.0	48.6	97.26

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 160-333931/7

Matrix: Water | Lab File ID: XBLK9509.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 17:26

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | 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.: 280-102516-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 160-333931/7

Matrix: Water | Lab File ID: XBLK9509.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 17:26

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | 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)	109		81-118
460-00-4	4-Bromofluorobenzene (Surr)	97		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\VMSX\20171025-11764.b\XBLK9509.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 25-Oct-2017 17:26:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-007
Misc. Info.: MB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:25:58 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:26:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877					ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.031					ND	
3 Chloromethane	50		2.079					ND	
4 Vinyl chloride	62		2.185					ND	
121 Butadiene	39		2.209					ND	
5 Bromomethane	94		2.576					ND	
6 Chloroethane	64		2.741					ND	
7 Trichlorofluoromethane	101		2.907					ND	
122 Dichlorofluoromethane	67		3.002					ND	
8 Ethyl ether	74		3.345					ND	
9 1,1-Dichloroethene	96		3.593					ND	
11 Ethanol	45		3.593					ND	
10 Carbon disulfide	76		3.605					ND	
12 1,1,2-Trichloro-1,2,2-trif	151		3.700					ND	
13 Iodomethane	142		3.783					ND	
14 Acrolein	56		4.126					ND	
15 3-Chloro-1-propene	39		4.339					ND	
16 Isopropyl alcohol	45		4.481					ND	
17 Methylene Chloride	84		4.516					ND	
18 Acetone	43		4.635					ND	
19 trans-1,2-Dichloroethene	96		4.777					ND	
20 Methyl acetate	74		4.859					ND	
21 Hexane	86		4.930					ND	
22 Methyl tert-butyl ether	73		5.001					ND	
23 2-Methyl-2-propanol	59		5.226					ND	
24 Acetonitrile	41		5.368					ND	
25 Isopropyl ether	45		5.629					ND	
27 2-Chloro-1,3-butadiene	53		5.711					ND	
28 1,1-Dichloroethane	63		5.747					ND	
S 26 1,2-Dichloroethene, Total	96		5.816					ND	
29 Acrylonitrile	53		5.853					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		6.173					ND	
31 Vinyl acetate	43		6.185					ND	
32 cis-1,2-Dichloroethene	96		6.540					ND	
33 2,2-Dichloropropane	77		6.682					ND	
34 Cyclohexane	84		6.788					ND	
35 Chlorobromomethane	128		6.812					ND	
36 Chloroform	83		6.942					ND	
37 Carbon tetrachloride	117		7.084					ND	
38 Tetrahydrofuran	71		7.155					ND	
39 Ethyl acetate	45		7.167					ND	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.179	0.012	93	204294	50.0	50.9	
40 1,1,1-Trichloroethane	97		7.190					ND	
42 1,1-Dichloropropene	75		7.356					ND	
43 2-Butanone (MEK)	43		7.380					ND	
124 Isooctane	57		7.522					ND	
117 n-Heptane	43		7.687					ND	
44 Benzene	78		7.687					ND	
45 Propionitrile	54		7.758					ND	
46 Methacrylonitrile	41		7.782					ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	34	211771	50.0	54.4	
48 Tert-amyl methyl ether	73		7.889					ND	
49 1,2-Dichloroethane	62		7.960					ND	
50 Isobutyl alcohol	42		8.090					ND	
* 51 Fluorobenzene	96	8.256	8.244	0.012	99	997139	50.0	50.0	
125 1,4-Difluorobenzene	114		8.427					ND	
52 Methylcyclohexane	55		8.433					ND	
53 Trichloroethene	95		8.457					ND	
A 126 C6-C12	1	8.921	(3.966-13.876)		0	377653			NC
54 n-Butanol	56		8.977					ND	
55 Dibromomethane	93		8.989					ND	
56 1,2-Dichloropropane	63		9.119					ND	
123 Ethyl acrylate	55		9.214					ND	
57 Dichlorobromomethane	83		9.214					ND	
58 Methyl methacrylate	69		9.462					ND	
59 1,4-Dioxane	88		9.486					ND	
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63		9.971					ND	
61 cis-1,3-Dichloropropene	75		10.019					ND	
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	865947	50.0	51.4	
63 Toluene	92		10.303					ND	
64 2-Nitropropane	43		10.610					ND	
65 Tetrachloroethene	164		10.764					ND	
66 4-Methyl-2-pentanone (MIBK	43		10.800					ND	
67 trans-1,3-Dichloropropene	75		10.823					ND	
68 1,1,2-Trichloroethane	83		11.001					ND	
69 Ethyl methacrylate	69		11.036					ND	
70 Chlorodibromomethane	129		11.190					ND	
71 1,3-Dichloropropane	76		11.296					ND	
72 Ethylene Dibromide	107		11.438					ND	
S 73 1,3-Dichloropropene, Total	75		11.620					ND	
118 n-Butyl acetate	43		11.628					ND	
74 2-Hexanone	43		11.722					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	11.983	11.983	0.000	88	584020	50.0	50.0	
75 1-Chlorohexane	91		11.995					ND	
77 Chlorobenzene	112		11.995					ND	
78 Ethylbenzene	91		12.030					ND	
79 1,1,1,2-Tetrachloroethane	131		12.066					ND	
80 m-Xylene & p-Xylene	106		12.184					ND	
82 o-Xylene	106		12.610					ND	
83 Styrene	104		12.657					ND	
84 Bromoform	173		12.681					ND	
85 Isopropylbenzene	105		12.906					ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	249417	50.0	48.5	
87 Bromobenzene	156		13.273					ND	
88 N-Propylbenzene	91		13.296					ND	
89 1,1,2,2-Tetrachloroethane	83		13.367					ND	
90 2-Chlorotoluene	91		13.438					ND	
91 1,3,5-Trimethylbenzene	105		13.486					ND	
92 1,2,3-Trichloropropane	110		13.486					ND	
93 trans-1,4-Dichloro-2-buten	53		13.533					ND	
94 Cyclohexanone	55		13.533					ND	
95 4-Chlorotoluene	91		13.592					ND	
96 tert-Butylbenzene	119		13.770					ND	
81 Pentachloroethane	167		13.776					ND	
97 1,2,4-Trimethylbenzene	105		13.829					ND	
98 sec-Butylbenzene	105		13.923					ND	
99 4-Isopropyltoluene	119		14.054					ND	
100 1,3-Dichlorobenzene	146		14.125					ND	
* 101 1,4-Dichlorobenzene-d4	152	14.196	14.184	0.012	98	239501	50.0	50.0	
102 1,4-Dichlorobenzene	146		14.196					ND	
119 1,2,3-Trimethylbenzene	105		14.219					ND	
120 Benzyl chloride	126		14.420					ND	
103 n-Butylbenzene	134		14.432					ND	
104 1,2-Dichlorobenzene	146		14.574					ND	
105 1,2-Dibromo-3-Chloropropan	157		15.261					ND	
106 n-Nonyl Aldehyde	57		15.284					ND	
107 1,3,5-Trichlorobenzene	180		15.284					ND	
108 Hexachlorobutadiene	225		15.805					ND	
109 1,2,4-Trichlorobenzene	180		15.840					ND	
110 Naphthalene	128		16.112					ND	
111 1,2,3-Trichlorobenzene	180		16.266					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:

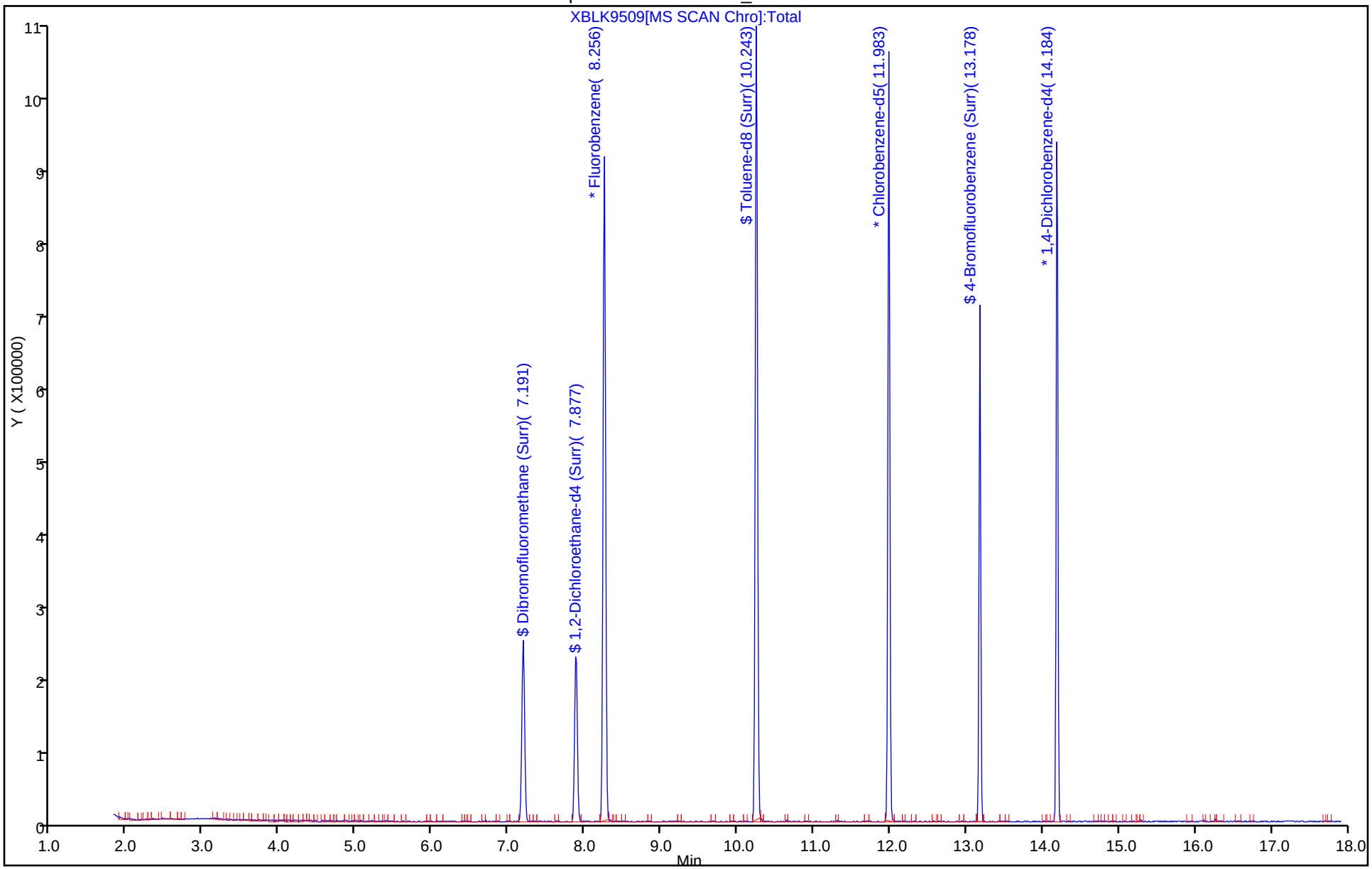
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 31-Oct-2017 16:26:38 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XBLK9509.D

Injection Date:	25-Oct-2017 17:26:30	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\20171025-11764.b\XBLK9509.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 25-Oct-2017 17:26:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-007
Misc. Info.: MB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:25:58 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:26:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.9	101.79
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	54.4	108.79
$ 62 Toluene-d8 (Surr)	50.0	51.4	102.78
$ 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.: 280-102516-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 160-333745/4

Matrix: Water | Lab File ID: XLCS9469.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 20:26

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	51.9		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	52.3		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	51.6		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	52.1		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	50.9		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	51.5		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	52.9		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	57.6		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	56.2		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	47.0		10	2.0	1.2
106-93-4	1,2-Dibromoethane	52.5		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	53.2		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	53.8		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	57.1		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	52.7		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	55.5		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	61.5		20	5.0	0.39
95-49-8	2-Chlorotoluene	55.1		5.0	2.0	0.34
591-78-6	2-Hexanone	50.6		20	2.0	0.59
106-43-4	4-Chlorotoluene	55.3		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	52.3		20	2.0	0.33
67-64-1	Acetone	50.1		20	10	6.7
71-43-2	Benzene	49.5		5.0	1.0	0.25
108-86-1	Bromobenzene	54.8		5.0	2.0	0.33
74-97-5	Bromochloromethane	48.4		5.0	2.0	0.55
75-27-4	Bromodichloromethane	53.3		5.0	2.0	0.25
75-25-2	Bromoform	56.2		5.0	1.0	0.37
74-83-9	Bromomethane	43.3		10	2.0	0.40
75-15-0	Carbon disulfide	51.4		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	52.1		5.0	1.0	0.36
108-90-7	Chlorobenzene	51.1		5.0	1.0	0.38
75-00-3	Chloroethane	48.0		10	1.0	0.38
67-66-3	Chloroform	50.8		5.0	1.0	0.15
74-87-3	Chloromethane	59.7		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	50.6		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 160-333745/4

Matrix: Water | Lab File ID: XLCS9469.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 20:26

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	49.3		5.0	1.0	0.34
124-48-1	Dibromochloromethane	51.9		5.0	1.0	0.33
74-95-3	Dibromomethane	50.8		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	53.4		10	2.0	0.45
100-41-4	Ethylbenzene	55.1		5.0	1.0	0.30
98-82-8	Isopropylbenzene	57.9		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	52.4		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	49.5		5.0	2.0	0.40
75-09-2	Methylene Chloride	48.8		7.5	5.0	1.7
91-20-3	Naphthalene	52.1		5.0	2.0	0.85
104-51-8	n-Butylbenzene	57.7		5.0	2.0	0.23
103-65-1	N-Propylbenzene	57.6		5.0	2.0	0.30
95-47-6	o-Xylene	51.0		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	56.6		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	55.6		5.0	2.0	0.31
100-42-5	Styrene	53.9		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	56.3		5.0	2.0	0.31
127-18-4	Tetrachloroethene	51.9		5.0	1.0	0.28
108-88-3	Toluene	51.8		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	48.5		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	49.7		5.0	1.0	0.35
79-01-6	Trichloroethene	49.4		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	55.0		5.0	2.0	0.22
75-01-4	Vinyl chloride	49.6		5.0	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		81-118
460-00-4	4-Bromofluorobenzene (Surr)	104		85-114
1868-53-7	Dibromofluoromethane (Surr)	96		80-119
2037-26-5	Toluene-d8 (Surr)	101		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XLCS9469.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 24-Oct-2017 20:26:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-004
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 20:02:45 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 20:02:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.877	0.001	99	340655	50.0	53.4	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.031	2.031	0.000	99	157866	50.0	53.8	
3 Chloromethane	50	2.079	2.090	-0.011	99	491571	50.0	59.7	
4 Vinyl chloride	62	2.185	2.197	-0.012	98	321371	50.0	49.6	
121 Butadiene	39	2.209	2.209	0.000	88	283305	50.0	52.4	
5 Bromomethane	94	2.576	2.576	0.000	92	107603	50.0	43.3	
6 Chloroethane	64	2.730	2.741	-0.011	98	114535	50.0	48.0	
7 Trichlorofluoromethane	101	2.907	2.919	-0.012	98	366471	50.0	55.0	
122 Dichlorofluoromethane	67	3.002	3.002	0.000	97	325635	50.0	52.2	
8 Ethyl ether	74	3.345	3.345	0.000	95	121465	50.0	48.4	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	96	286629	50.0	51.5	
11 Ethanol	45	3.593	3.605	-0.012	72	71972	2000.0	2366.3	
10 Carbon disulfide	76	3.593	3.605	-0.012	100	964655	50.0	51.4	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	94	201407	50.0	49.8	
13 Iodomethane	142	3.783	3.794	-0.011	98	345428	50.0	49.3	
14 Acrolein	56	4.126	4.138	-0.012	99	104927	250.0	250.6	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	92	307906	50.0	55.5	
16 Isopropyl alcohol	45	4.481	4.493	-0.012	95	73592	500.0	519.4	
17 Methylene Chloride	84	4.516	4.516	0.000	99	250726	50.0	48.8	
18 Acetone	43	4.623	4.635	-0.012	98	37376	50.0	50.1	
19 trans-1,2-Dichloroethene	96	4.777	4.788	-0.011	96	279088	50.0	48.5	
20 Methyl acetate	74	4.860	4.871	-0.011	99	38352	250.0	247.0	
21 Hexane	86	4.931	4.930	0.001	89	94302	50.0	53.6	
22 Methyl tert-butyl ether	73	5.002	5.013	-0.011	96	397744	50.0	49.5	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	93	106343	500.0	485.4	
24 Acetonitrile	41	5.368	5.368	0.000	99	162137	500.0	576.1	
25 Isopropyl ether	45	5.629	5.640	-0.011	95	815872	50.0	52.3	
27 2-Chloro-1,3-butadiene	53	5.711	5.723	-0.012	93	524833	50.0	57.9	
28 1,1-Dichloroethane	63	5.747	5.759	-0.012	98	510377	50.0	50.9	
29 Acrylonitrile	53	5.842	5.853	-0.011	100	515050	500.0	581.5	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	97	607514	50.0	49.9	

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	6.185	6.197	-0.011	98	393183	50.0	58.8	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	81	279873	50.0	50.6	
33 2,2-Dichloropropane	77	6.682	6.693	-0.011	92	280603	50.0	55.5	
34 Cyclohexane	84	6.788	6.800	-0.012	93	466188	50.0	51.9	
35 Chlorobromomethane	128	6.812	6.812	0.000	96	95803	50.0	48.4	
36 Chloroform	83	6.942	6.942	0.000	95	450112	50.0	50.8	
37 Carbon tetrachloride	117	7.084	7.096	-0.012	98	348941	50.0	52.1	
38 Tetrahydrofuran	71	7.155	7.155	0.000	89	24298	100.0	93.7	
39 Ethyl acetate	45	7.167	7.167	0.000	99	38865	100.0	106.2	
40 1,1,1-Trichloroethane	97	7.191	7.190	0.001	98	406086	50.0	52.3	
$ 41 Dibromofluoromethane (Surr	113	7.179	7.190	-0.011	92	210143	50.0	48.1	
42 1,1-Dichloropropene	75	7.356	7.368	-0.012	95	388119	50.0	52.9	
43 2-Butanone (MEK)	43	7.380	7.392	-0.012	98	61635	50.0	61.5	
124 Isooctane	57	7.522	7.534	-0.012	96	1304590	50.0	55.4	
117 n-Heptane	43	7.688	7.687	0.001	77	635674	50.0	61.7	
44 Benzene	78	7.688	7.687	0.001	97	1107614	50.0	49.5	
45 Propionitrile	54	7.759	7.758	0.001	95	185002	500.0	559.5	
46 Methacrylonitrile	41	7.782	7.782	0.000	93	881331	500.0	574.6	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	94	214502	50.0	50.7	
48 Tert-amyl methyl ether	73	7.889	7.889	0.000	93	435749	50.0	52.8	
49 1,2-Dichloroethane	62	7.960	7.971	-0.011	97	265291	50.0	53.2	
50 Isobutyl alcohol	42	8.090	8.090	0.000	93	84928	1250.0	1319.2	
* 51 Fluorobenzene	96	8.244	8.255	-0.011	99	1084508	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.433	0.000	92	515560	50.0	57.1	
53 Trichloroethene	95	8.457	8.457	0.000	98	292780	50.0	49.4	
54 n-Butanol	56	8.977	8.977	0.000	91	80178	1250.0	1201.1	
55 Dibromomethane	93	8.989	8.989	0.000	93	105449	50.0	50.8	
56 1,2-Dichloropropane	63	9.119	9.131	-0.012	94	263623	50.0	53.8	
123 Ethyl acrylate	55	9.214	9.214	0.000	98	173596	50.0	50.9	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	311631	50.0	53.3	
58 Methyl methacrylate	69	9.463	9.462	0.001	94	183355	100.0	95.6	
59 1,4-Dioxane	88	9.486	9.486	0.000	84	24609	1000.0	984.2	
60 2-Chloroethyl vinyl ether	63	9.971	9.971	0.000	92	54970	50.0	231.4	E
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	94	354646	50.0	49.3	
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	968351	50.0	50.7	
63 Toluene	92	10.303	10.303	0.000	98	720328	50.0	51.8	
64 2-Nitropropane	43	10.610	10.610	0.000	99	61965	100.0	106.0	
65 Tetrachloroethene	164	10.764	10.764	0.000	95	219176	50.0	51.9	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.800	0.000	97	124113	50.0	52.3	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	95	279525	50.0	49.7	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	90	139408	50.0	52.1	
69 Ethyl methacrylate	69	11.036	11.036	0.000	85	178873	50.0	45.7	
70 Chlorodibromomethane	129	11.190	11.190	0.000	91	168891	50.0	51.9	
71 1,3-Dichloropropane	76	11.297	11.296	0.001	94	285708	50.0	52.7	
72 Ethylene Dibromide	107	11.439	11.438	0.001	97	139753	50.0	52.5	
118 n-Butyl acetate	43	11.628	11.628	0.000	98	200772	50.0	48.4	
74 2-Hexanone	43	11.723	11.722	0.001	97	84888	50.0	50.6	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	88	662559	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	79	451322	50.0	48.9	
77 Chlorobenzene	112	11.995	11.995	0.000	94	701762	50.0	51.1	
78 Ethylbenzene	91	12.030	12.042	-0.012	98	1426958	50.0	55.1	
79 1,1,1,2-Tetrachloroethane	131	12.066	12.066	0.000	94	212500	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	12.184	12.184	0.000	97	506709	50.0	52.4	
82 o-Xylene	106	12.610	12.610	0.000	98	456217	50.0	51.0	
83 Styrene	104	12.657	12.657	0.000	96	710606	50.0	53.9	
84 Bromoform	173	12.681	12.681	0.000	96	79888	50.0	56.2	
85 Isopropylbenzene	105	12.906	12.918	-0.012	96	1286706	50.0	57.9	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.178	-0.012	82	299488	50.0	51.8	
87 Bromobenzene	156	13.261	13.273	-0.012	95	236754	50.0	54.8	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	1592572	50.0	57.6	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	95	159549	50.0	51.6	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	869500	50.0	55.1	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	997398	50.0	57.1	
92 1,2,3-Trichloropropane	110	13.486	13.497	-0.011	81	45116	50.0	52.7	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	91	52861	50.0	56.1	
94 Cyclohexanone	55	13.533	13.533	0.000	69	37235	500.0	449.3	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	882693	50.0	55.3	
96 tert-Butylbenzene	119	13.770	13.770	0.000	93	847095	50.0	56.3	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	98	976537	50.0	56.2	
98 sec-Butylbenzene	105	13.924	13.923	0.001	95	1376641	50.0	55.6	
99 4-Isopropyltoluene	119	14.054	14.054	0.000	96	1069883	50.0	56.6	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	467507	50.0	51.7	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	269219	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.196	14.207	-0.011	92	446630	50.0	51.5	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	99	869100	50.0	53.5	
120 Benzyl chloride	126	14.421	14.420	0.000	90	54313	50.0	59.2	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	284152	50.0	57.7	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	381237	50.0	51.7	
105 1,2-Dibromo-3-Chloropropan	157	15.261	15.261	0.000	84	18023	50.0	47.0	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	57	93142	50.0	52.7	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	322579	50.0	55.6	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	143662	50.0	53.3	
109 1,2,4-Trichlorobenzene	180	15.829	15.840	-0.011	94	240378	50.0	57.7	
110 Naphthalene	128	16.113	16.112	0.001	97	384329	50.0	52.1	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	201022	50.0	57.6	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

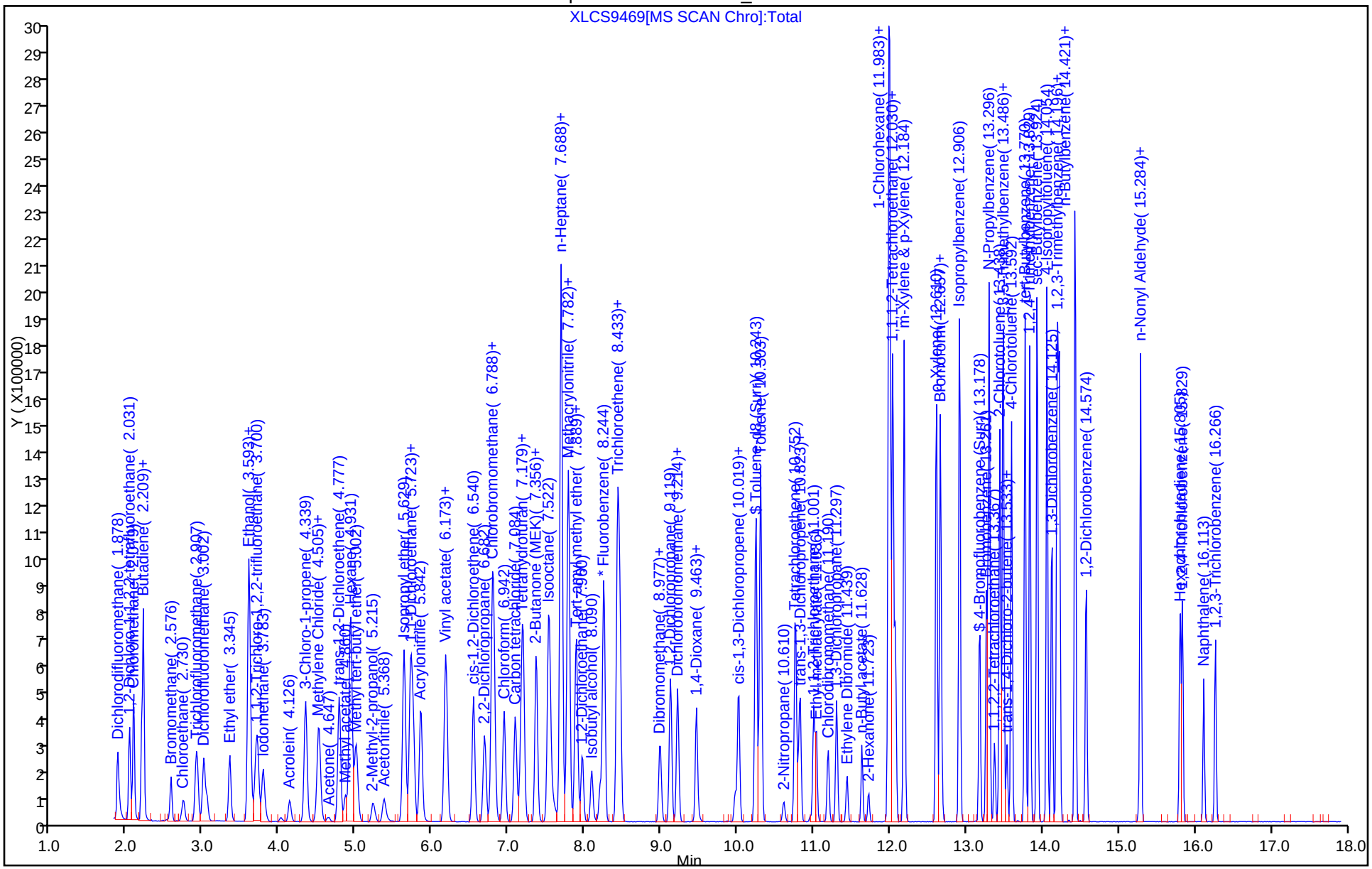
8260 NewWkMix_00243	Amount Added: 10.00	Units: uL	
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 25-Oct-2017 20:02:45 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XLCS9469.D

Injection Date:	24-Oct-2017 20:26:30	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\20171024-11757.b\XLCS9469.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 24-Oct-2017 20:26:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-004
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 20:02:45 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 20:02:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	48.1	96.27
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.7	101.32
$ 62 Toluene-d8 (Surr)	50.0	50.7	101.31
$ 86 4-Bromofluorobenzene (Surr)	50.0	51.8	103.63

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 160-333931/4

Matrix: Water | Lab File ID: XLCS9506.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 16:11

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	51.5		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	51.4		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	50.1		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	49.8		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	50.3		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	51.9		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	56.3		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	50.4		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	55.5		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	46.7		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	52.0		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	52.3		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	55.3		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	51.4		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	55.5		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	58.2		20	5.0	0.39
95-49-8	2-Chlorotoluene	55.6		5.0	2.0	0.34
591-78-6	2-Hexanone	50.3		20	2.0	0.59
106-43-4	4-Chlorotoluene	54.8		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	50.5		20	2.0	0.33
67-64-1	Acetone	48.3		20	10	6.7
71-43-2	Benzene	48.6		5.0	1.0	0.25
108-86-1	Bromobenzene	53.2		5.0	2.0	0.33
74-97-5	Bromochloromethane	47.6		5.0	2.0	0.55
75-27-4	Bromodichloromethane	51.9		5.0	2.0	0.25
75-25-2	Bromoform	53.5		5.0	1.0	0.37
74-83-9	Bromomethane	51.6		10	2.0	0.40
75-15-0	Carbon disulfide	50.3		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	51.9		5.0	1.0	0.36
108-90-7	Chlorobenzene	51.6		5.0	1.0	0.38
75-00-3	Chloroethane	51.8		10	1.0	0.38
67-66-3	Chloroform	49.3		5.0	1.0	0.15
74-87-3	Chloromethane	53.8		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	49.8		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 160-333931/4

Matrix: Water | Lab File ID: XLCS9506.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 16:11

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	47.5		5.0	1.0	0.34
124-48-1	Dibromochloromethane	51.3		5.0	1.0	0.33
74-95-3	Dibromomethane	49.1		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	49.3		10	2.0	0.45
100-41-4	Ethylbenzene	55.9		5.0	1.0	0.30
98-82-8	Isopropylbenzene	56.8		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	51.7		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	49.0		5.0	2.0	0.40
75-09-2	Methylene Chloride	47.1		7.5	5.0	1.7
91-20-3	Naphthalene	51.6		5.0	2.0	0.85
104-51-8	n-Butylbenzene	56.7		5.0	2.0	0.23
103-65-1	N-Propylbenzene	56.8		5.0	2.0	0.30
95-47-6	o-Xylene	51.2		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	55.8		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	54.7		5.0	2.0	0.31
100-42-5	Styrene	55.0		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	55.8		5.0	2.0	0.31
127-18-4	Tetrachloroethene	51.3		5.0	1.0	0.28
108-88-3	Toluene	51.2		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	47.8		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	49.2		5.0	1.0	0.35
79-01-6	Trichloroethene	49.5		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	53.9		5.0	2.0	0.22
75-01-4	Vinyl chloride	48.6		5.0	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		81-118
460-00-4	4-Bromofluorobenzene (Surr)	101		85-114
1868-53-7	Dibromofluoromethane (Surr)	96		80-119
2037-26-5	Toluene-d8 (Surr)	103		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XLCS9506.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 25-Oct-2017 16:11:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-004
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:24:54 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:24:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.877	0.001	99	308190	50.0	49.3	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.031	2.031	0.000	99	146686	50.0	51.0	
3 Chloromethane	50	2.091	2.079	0.012	99	433884	50.0	53.8	
4 Vinyl chloride	62	2.197	2.185	0.012	97	308141	50.0	48.6	
121 Butadiene	39	2.209	2.209	0.000	89	278657	50.0	52.6	
5 Bromomethane	94	2.576	2.576	0.000	93	125514	50.0	51.6	
6 Chloroethane	64	2.741	2.741	0.000	99	120888	50.0	51.8	
7 Trichlorofluoromethane	101	2.919	2.907	0.012	99	351844	50.0	53.9	
122 Dichlorofluoromethane	67	3.002	3.002	0.000	97	316397	50.0	51.8	
8 Ethyl ether	74	3.345	3.345	0.000	96	112097	50.0	45.6	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	95	269725	50.0	49.5	
11 Ethanol	45	3.593	3.593	0.000	26	66463	2000.0	2235.4	
10 Carbon disulfide	76	3.605	3.605	0.000	100	924953	50.0	50.3	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	94	198741	50.0	50.2	
13 Iodomethane	142	3.794	3.783	0.011	98	327550	50.0	47.7	
14 Acrolein	56	4.138	4.126	0.012	100	99047	250.0	242.0	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	93	287486	50.0	52.9	
16 Isopropyl alcohol	45	4.481	4.481	0.000	95	67748	500.0	489.9	
17 Methylene Chloride	84	4.516	4.516	0.000	99	237056	50.0	47.1	
18 Acetone	43	4.646	4.635	0.011	99	35291	50.0	48.3	
19 trans-1,2-Dichloroethene	96	4.788	4.777	0.011	97	269363	50.0	47.8	
20 Methyl acetate	74	4.859	4.859	0.000	97	34792	250.0	229.5	
21 Hexane	86	4.930	4.930	0.000	89	87971	50.0	51.1	
22 Methyl tert-butyl ether	73	5.001	5.001	0.000	96	385791	50.0	49.0	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	94	99955	500.0	467.1	
24 Acetonitrile	41	5.368	5.368	0.000	99	155683	500.0	564.7	
25 Isopropyl ether	45	5.629	5.629	0.000	95	768544	50.0	50.4	
27 2-Chloro-1,3-butadiene	53	5.723	5.711	0.012	93	503948	50.0	56.8	
28 1,1-Dichloroethane	63	5.747	5.747	0.000	98	493899	50.0	50.3	
29 Acrylonitrile	53	5.853	5.853	0.000	100	492453	500.0	567.6	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	97	570418	50.0	47.9	

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	6.185	6.185	0.000	97	372426	50.0	56.8	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	81	269453	50.0	49.8	
33 2,2-Dichloropropane	77	6.694	6.682	0.012	93	274433	50.0	55.5	
34 Cyclohexane	84	6.788	6.788	0.000	92	448048	50.0	50.9	
35 Chlorobromomethane	128	6.812	6.812	0.000	92	92419	50.0	47.6	
36 Chloroform	83	6.942	6.942	0.000	95	428148	50.0	49.3	
37 Carbon tetrachloride	117	7.096	7.084	0.012	97	340026	50.0	51.9	
38 Tetrahydrofuran	71	7.155	7.155	0.000	87	22102	100.0	87.6	
39 Ethyl acetate	45	7.167	7.167	0.000	97	36916	100.0	103.1	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.179	0.012	91	205128	50.0	48.0	
40 1,1,1-Trichloroethane	97	7.191	7.190	0.001	97	390772	50.0	51.4	
42 1,1-Dichloropropene	75	7.368	7.356	0.012	95	372690	50.0	51.9	
43 2-Butanone (MEK)	43	7.392	7.380	0.012	99	57118	50.0	58.2	
124 Isooctane	57	7.534	7.522	0.012	96	1263502	50.0	54.8	
117 n-Heptane	43	7.687	7.687	0.000	77	607052	50.0	60.1	
44 Benzene	78	7.687	7.687	0.000	97	1064967	50.0	48.6	
45 Propionitrile	54	7.758	7.758	0.000	95	177460	500.0	548.0	
46 Methacrylonitrile	41	7.782	7.782	0.000	93	836792	500.0	557.0	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	93	211853	50.0	51.1	
48 Tert-amyl methyl ether	73	7.889	7.889	0.000	93	411745	50.0	51.0	
49 1,2-Dichloroethane	62	7.971	7.960	0.011	96	253770	50.0	52.0	
50 Isobutyl alcohol	42	8.090	8.090	0.000	91	81575	1250.0	1295.2	
* 51 Fluorobenzene	96	8.244	8.244	0.000	99	1062230	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.433	0.000	92	489534	50.0	55.3	
53 Trichloroethene	95	8.457	8.457	0.000	98	287120	50.0	49.5	
54 n-Butanol	56	8.977	8.977	0.000	94	76236	1250.0	1171.2	
55 Dibromomethane	93	8.989	8.989	0.000	96	99954	50.0	49.1	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	95	250887	50.0	52.3	
123 Ethyl acrylate	55	9.214	9.214	0.000	98	163716	50.0	49.1	
57 Dichlorobromomethane	83	9.214	9.214	0.000	98	297157	50.0	51.9	
58 Methyl methacrylate	69	9.462	9.462	0.000	95	170618	100.0	91.2	
59 1,4-Dioxane	88	9.486	9.486	0.000	84	24329	1000.0	992.7	
60 2-Chloroethyl vinyl ether	63	9.971	9.971	0.000	91	42679	50.0	183.5	
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	94	333632	50.0	47.5	
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	955030	50.0	51.6	
63 Toluene	92	10.303	10.303	0.000	98	688731	50.0	51.2	
64 2-Nitropropane	43	10.610	10.610	0.000	98	57794	100.0	102.6	
65 Tetrachloroethene	164	10.764	10.764	0.000	95	209579	50.0	51.3	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.800	0.000	96	115656	50.0	50.5	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	95	267780	50.0	49.2	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	90	129037	50.0	49.8	
69 Ethyl methacrylate	69	11.036	11.036	0.000	87	167004	50.0	44.2	
70 Chlorodibromomethane	129	11.190	11.190	0.000	90	161646	50.0	51.3	
71 1,3-Dichloropropane	76	11.297	11.296	0.001	94	269878	50.0	51.4	
72 Ethylene Dibromide	107	11.439	11.438	0.001	99	131789	50.0	51.2	
118 n-Butyl acetate	43	11.628	11.628	0.000	98	190628	50.0	47.6	
74 2-Hexanone	43	11.723	11.722	0.001	98	81598	50.0	50.3	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	89	640940	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	81	434355	50.0	48.7	
77 Chlorobenzene	112	11.995	11.995	0.000	97	685418	50.0	51.6	
78 Ethylbenzene	91	12.030	12.030	0.000	96	1401641	50.0	55.9	
79 1,1,1,2-Tetrachloroethane	131	12.066	12.066	0.000	94	203769	50.0	51.5	

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	12.184	12.184	0.000	97	483517	50.0	51.7	
82 o-Xylene	106	12.610	12.610	0.000	98	442892	50.0	51.2	
83 Styrene	104	12.657	12.657	0.000	95	701447	50.0	55.0	
84 Bromoform	173	12.681	12.681	0.000	95	74696	50.0	53.5	
85 Isopropylbenzene	105	12.906	12.906	0.000	97	1239321	50.0	56.8	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	85	286184	50.0	50.4	
87 Bromobenzene	156	13.273	13.273	0.000	96	225627	50.0	53.2	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	1544680	50.0	56.8	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	95	152340	50.0	50.1	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	861807	50.0	55.6	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	948929	50.0	55.3	
92 1,2,3-Trichloropropane	110	13.486	13.486	0.000	83	42354	50.0	50.4	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	89	48619	50.0	52.6	
94 Cyclohexanone	55	13.533	13.533	0.000	72	35720	500.0	439.5	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	858276	50.0	54.8	
96 tert-Butylbenzene	119	13.770	13.770	0.000	94	824087	50.0	55.8	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	98	946040	50.0	55.5	
98 sec-Butylbenzene	105	13.923	13.923	0.000	95	1329312	50.0	54.7	
99 4-Isopropyltoluene	119	14.054	14.054	0.000	96	1037432	50.0	55.8	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	456347	50.0	51.4	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	264489	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.196	14.196	0.000	92	434803	50.0	51.1	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	99	835278	50.0	52.4	
120 Benzyl chloride	126	14.420	14.420	0.000	89	51158	50.0	56.7	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	274440	50.0	56.7	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	366563	50.0	50.6	
105 1,2-Dibromo-3-Chloropropan	157	15.261	15.261	0.000	83	17590	50.0	46.7	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	57	90549	50.0	52.2	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	318690	50.0	55.9	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	139369	50.0	52.7	
109 1,2,4-Trichlorobenzene	180	15.829	15.840	-0.011	94	234582	50.0	57.3	
110 Naphthalene	128	16.113	16.112	0.001	97	373312	50.0	51.6	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	193183	50.0	56.3	

Reagents:

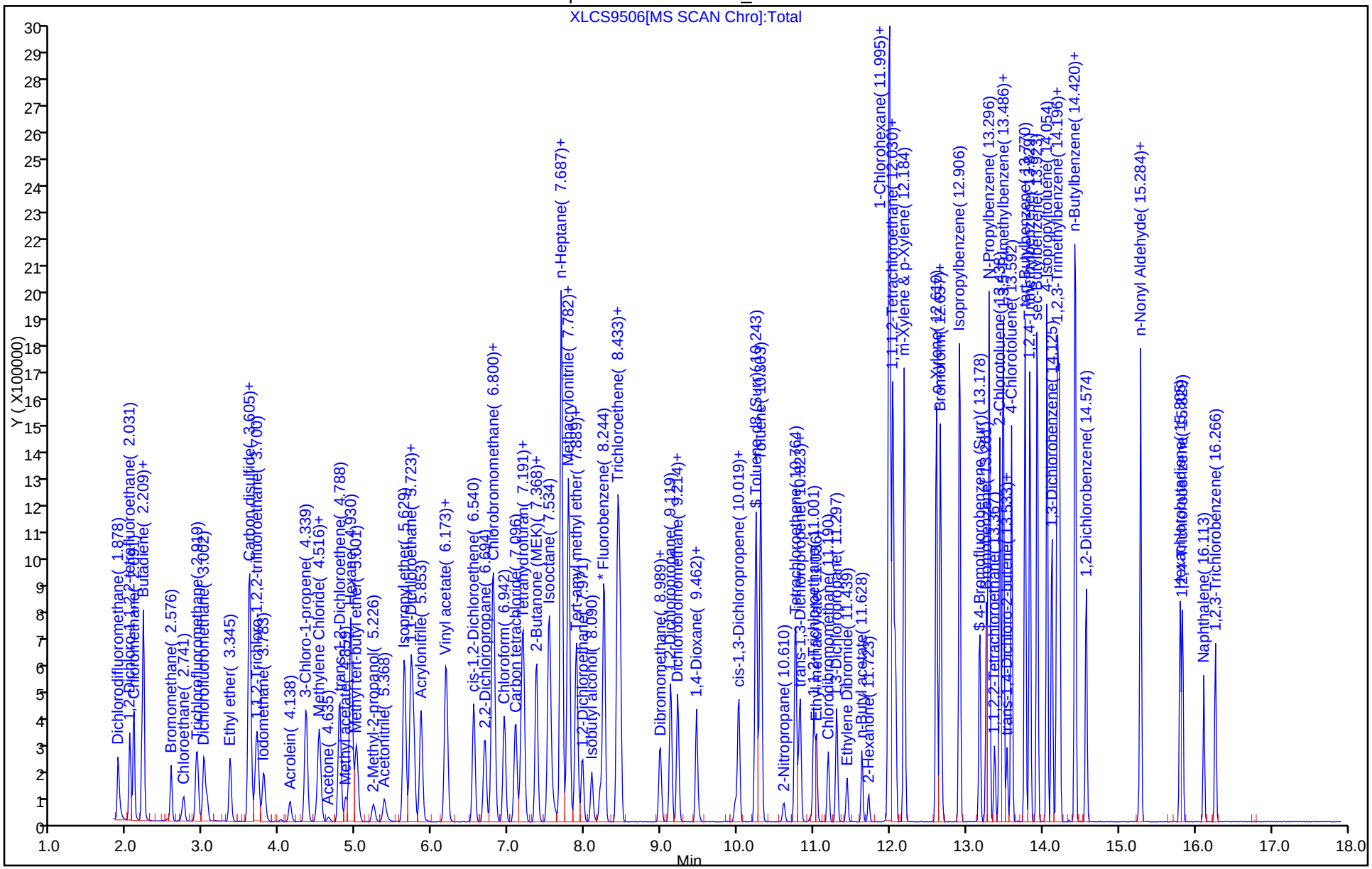
8260 NewWkMix_00243	Amount Added: 10.00	Units: uL	
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 31-Oct-2017 16:24:55 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XLCS9506.D

Injection Date:	25-Oct-2017 16:11:30	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\20171025-11764.b\XLCS9506.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 25-Oct-2017 16:11:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-004
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:24:54 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:24:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	48.0	95.95
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.1	102.17
$ 62 Toluene-d8 (Surr)	50.0	51.6	103.29
$ 86 4-Bromofluorobenzene (Surr)	50.0	50.4	100.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 160-333745/5

Matrix: Water | Lab File ID: XLCS9470.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 20:51

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | 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	53.1		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	48.9		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	50.1		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	50.8		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	49.4		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	52.2		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	56.7		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	50.6		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	54.6		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	45.9		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	51.8		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	52.9		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	55.5		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	51.1		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	56.3		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	59.3		20	5.0	0.39
95-49-8	2-Chlorotoluene	56.4		5.0	2.0	0.34
591-78-6	2-Hexanone	51.5		20	2.0	0.59
106-43-4	4-Chlorotoluene	54.4		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	51.5		20	2.0	0.33
67-64-1	Acetone	48.3		20	10	6.7
71-43-2	Benzene	49.0		5.0	1.0	0.25
108-86-1	Bromobenzene	52.9		5.0	2.0	0.33
74-97-5	Bromochloromethane	49.1		5.0	2.0	0.55
75-27-4	Bromodichloromethane	52.9		5.0	2.0	0.25
75-25-2	Bromoform	52.3		5.0	1.0	0.37
74-83-9	Bromomethane	48.6		10	2.0	0.40
75-15-0	Carbon disulfide	50.2		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	52.1		5.0	1.0	0.36
108-90-7	Chlorobenzene	50.5		5.0	1.0	0.38
75-00-3	Chloroethane	50.8		10	1.0	0.38
67-66-3	Chloroform	50.0		5.0	1.0	0.15
74-87-3	Chloromethane	55.5		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	50.5		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 160-333745/5

Matrix: Water | Lab File ID: XLCS9470.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 20:51

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	48.9		5.0	1.0	0.34
124-48-1	Dibromochloromethane	50.9		5.0	1.0	0.33
74-95-3	Dibromomethane	50.9		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	52.2		10	2.0	0.45
100-41-4	Ethylbenzene	55.6		5.0	1.0	0.30
98-82-8	Isopropylbenzene	57.1		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	51.5		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	50.5		5.0	2.0	0.40
75-09-2	Methylene Chloride	48.0		7.5	5.0	1.7
91-20-3	Naphthalene	51.6		5.0	2.0	0.85
104-51-8	n-Butylbenzene	55.7		5.0	2.0	0.23
103-65-1	N-Propylbenzene	56.2		5.0	2.0	0.30
95-47-6	o-Xylene	50.6		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	55.9		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	53.6		5.0	2.0	0.31
100-42-5	Styrene	54.2		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	55.7		5.0	2.0	0.31
127-18-4	Tetrachloroethene	50.7		5.0	1.0	0.28
108-88-3	Toluene	51.3		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	49.6		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	50.1		5.0	1.0	0.35
79-01-6	Trichloroethene	49.0		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	52.7		5.0	2.0	0.22
75-01-4	Vinyl chloride	49.4		5.0	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		81-118
460-00-4	4-Bromofluorobenzene (Surr)	103		85-114
1868-53-7	Dibromofluoromethane (Surr)	97		80-119
2037-26-5	Toluene-d8 (Surr)	103		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XLCS9470.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 24-Oct-2017 20:51:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-005
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 20:04:04 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 20:04:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.877	0.001	99	345614	50.0	52.2	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.031	2.031	0.000	99	160415	50.0	52.8	
3 Chloromethane	50	2.079	2.090	-0.011	99	474291	50.0	55.5	
4 Vinyl chloride	62	2.185	2.197	-0.012	98	331278	50.0	49.4	
121 Butadiene	39	2.209	2.209	0.000	88	294938	50.0	52.6	
5 Bromomethane	94	2.576	2.576	0.000	92	125303	50.0	48.6	
6 Chloroethane	64	2.741	2.741	0.000	99	125393	50.0	50.8	
7 Trichlorofluoromethane	101	2.907	2.919	-0.012	99	363831	50.0	52.7	
122 Dichlorofluoromethane	67	3.002	3.002	0.000	97	328762	50.0	50.8	
8 Ethyl ether	74	3.345	3.345	0.000	95	120958	50.0	46.5	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	94	285026	50.0	49.4	
11 Ethanol	45	3.605	3.605	0.000	26	68731	2000.0	2186.9	
10 Carbon disulfide	76	3.605	3.605	0.000	100	976515	50.0	50.2	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	94	208945	50.0	49.9	
13 Iodomethane	142	3.783	3.794	-0.011	98	360669	50.0	49.7	
14 Acrolein	56	4.126	4.138	-0.012	99	105349	250.0	243.2	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	93	317055	50.0	55.2	
16 Isopropyl alcohol	45	4.493	4.493	0.000	95	76167	500.0	518.8	
17 Methylene Chloride	84	4.516	4.516	0.000	99	255425	50.0	48.0	
18 Acetone	43	4.646	4.635	0.011	98	37335	50.0	48.3	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	97	295577	50.0	49.6	
20 Methyl acetate	74	4.859	4.871	-0.012	98	37627	250.0	234.4	
21 Hexane	86	4.930	4.930	0.000	89	93485	50.0	51.3	
22 Methyl tert-butyl ether	73	5.001	5.013	-0.012	95	420561	50.0	50.5	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	93	108719	500.0	479.4	
24 Acetonitrile	41	5.368	5.368	0.000	100	166994	500.0	572.6	
25 Isopropyl ether	45	5.629	5.640	-0.011	95	847699	50.0	52.4	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	93	540846	50.0	57.6	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	98	527766	50.0	50.8	
29 Acrylonitrile	53	5.853	5.853	0.000	99	514616	500.0	560.7	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	97	630940	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
31 Vinyl acetate	43	6.197	6.197	0.001	97	399744	50.0	57.6	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	81	289285	50.0	50.5	
33 2,2-Dichloropropane	77	6.694	6.693	0.001	93	294955	50.0	56.3	
34 Cyclohexane	84	6.788	6.800	-0.012	92	480014	50.0	51.6	
35 Chlorobromomethane	128	6.812	6.812	0.000	92	100819	50.0	49.1	
36 Chloroform	83	6.942	6.942	0.000	94	459673	50.0	50.0	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	361234	50.0	52.1	
38 Tetrahydrofuran	71	7.155	7.155	0.000	90	23235	100.0	87.1	
39 Ethyl acetate	45	7.167	7.167	0.000	97	37259	100.0	98.4	
40 1,1,1-Trichloroethane	97	7.191	7.190	0.001	98	427147	50.0	53.1	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.190	0.001	92	218924	50.0	48.4	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	95	397151	50.0	52.2	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	99	61539	50.0	59.3	
124 Isooctane	57	7.534	7.534	0.000	96	1352234	50.0	55.5	
117 n-Heptane	43	7.688	7.687	0.001	77	633622	50.0	59.3	
44 Benzene	78	7.688	7.687	0.001	97	1136229	50.0	49.0	
45 Propionitrile	54	7.759	7.758	0.001	94	189863	500.0	554.2	
46 Methacrylonitrile	41	7.782	7.782	0.000	93	891421	500.0	560.9	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	95	218654	50.0	49.8	
48 Tert-amyl methyl ether	73	7.889	7.889	0.000	93	453669	50.0	53.1	
49 1,2-Dichloroethane	62	7.972	7.971	0.001	96	267585	50.0	51.8	
50 Isobutyl alcohol	42	8.090	8.090	0.000	93	85140	1250.0	1278.8	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	1123755	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.433	0.000	93	527747	50.0	56.4	
53 Trichloroethene	95	8.457	8.457	0.000	98	300380	50.0	49.0	
54 n-Butanol	56	8.977	8.977	0.000	92	81037	1250.0	1175.9	
55 Dibromomethane	93	8.989	8.989	0.000	95	109486	50.0	50.9	
56 1,2-Dichloropropane	63	9.119	9.131	-0.012	94	268301	50.0	52.9	
123 Ethyl acrylate	55	9.214	9.214	0.000	99	177027	50.0	50.1	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	320756	50.0	52.9	
58 Methyl methacrylate	69	9.462	9.462	0.000	95	185279	100.0	93.4	
59 1,4-Dioxane	88	9.486	9.486	0.000	82	24133	1000.0	935.4	
60 2-Chloroethyl vinyl ether	63	9.971	9.971	0.000	92	55568	50.0	225.8	E
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	94	363829	50.0	48.9	
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	1009917	50.0	51.4	
63 Toluene	92	10.303	10.303	0.000	98	733574	50.0	51.3	
64 2-Nitropropane	43	10.610	10.610	0.000	96	64206	100.0	106.7	
65 Tetrachloroethene	164	10.764	10.764	0.000	95	220167	50.0	50.7	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.800	0.000	98	125471	50.0	51.5	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	95	290341	50.0	50.1	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	90	138045	50.0	50.1	
69 Ethyl methacrylate	69	11.036	11.036	0.000	88	182343	50.0	45.3	
70 Chlorodibromomethane	129	11.190	11.190	0.000	91	170631	50.0	50.9	
71 1,3-Dichloropropane	76	11.297	11.296	0.001	93	285341	50.0	51.1	
72 Ethylene Dibromide	107	11.439	11.438	0.001	99	137318	50.0	50.1	
118 n-Butyl acetate	43	11.628	11.628	0.000	98	211558	50.0	49.3	
74 2-Hexanone	43	11.723	11.722	0.001	96	88866	50.0	51.5	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	89	681538	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	85	445698	50.0	47.0	
77 Chlorobenzene	112	11.995	11.995	0.000	96	713120	50.0	50.5	
78 Ethylbenzene	91	12.042	12.042	0.000	98	1480638	50.0	55.6	
79 1,1,1,2-Tetrachloroethane	131	12.066	12.066	0.000	93	212148	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
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	96	512298	50.0	51.5	
82 o-Xylene	106	12.610	12.610	0.000	98	465224	50.0	50.6	
83 Styrene	104	12.657	12.657	0.000	95	734442	50.0	54.2	
84 Bromoform	173	12.681	12.681	0.000	96	77047	50.0	52.3	
85 Isopropylbenzene	105	12.906	12.918	-0.012	96	1312852	50.0	57.1	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	83	308997	50.0	51.6	
87 Bromobenzene	156	13.273	13.273	0.000	95	236724	50.0	52.9	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	1611816	50.0	56.2	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	95	156850	50.0	48.9	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	921440	50.0	56.4	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	1005460	50.0	55.5	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	82	44861	50.0	50.6	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	91	52137	50.0	53.5	
94 Cyclohexanone	55	13.533	13.533	0.000	69	37261	500.0	435.1	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	899502	50.0	54.4	
96 tert-Butylbenzene	119	13.770	13.770	0.000	93	868693	50.0	55.7	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	98	981492	50.0	54.6	
98 sec-Butylbenzene	105	13.923	13.923	0.000	95	1375521	50.0	53.6	
99 4-Isopropyltoluene	119	14.054	14.054	0.000	97	1095576	50.0	55.9	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	470830	50.0	50.3	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	278917	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	92	450707	50.0	50.2	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	99	876235	50.0	52.1	
120 Benzyl chloride	126	14.420	14.420	0.000	89	53859	50.0	56.7	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	284438	50.0	55.7	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	385308	50.0	50.4	
105 1,2-Dibromo-3-Chloropropan	157	15.261	15.261	0.000	84	18221	50.0	45.9	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	57	99192	50.0	54.1	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	330696	50.0	55.0	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	95	138678	50.0	49.7	
109 1,2,4-Trichlorobenzene	180	15.829	15.840	-0.011	94	244488	50.0	56.7	
110 Naphthalene	128	16.113	16.112	0.001	97	393518	50.0	51.6	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	204890	50.0	56.7	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

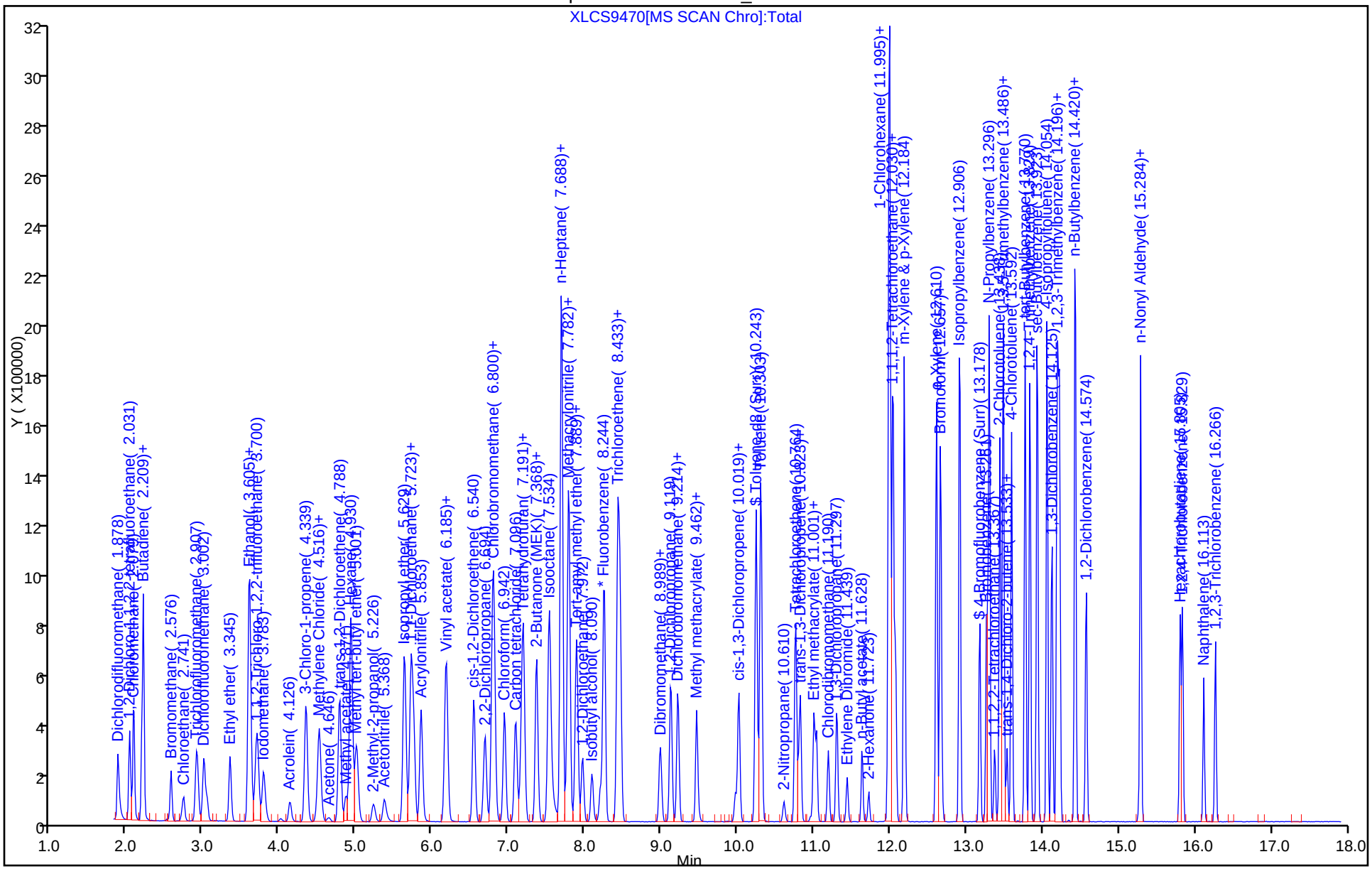
8260 NewWkMix_00243	Amount Added: 10.00	Units: uL	
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 25-Oct-2017 20:04:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XLCS9470.D

Injection Date:	24-Oct-2017 20:51:30	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\20171024-11757.b\XLCS9470.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 24-Oct-2017 20:51:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-005
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 20:04:04 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 20:04:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	48.4	96.79
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	49.8	99.67
$ 62 Toluene-d8 (Surr)	50.0	51.4	102.72
$ 86 4-Bromofluorobenzene (Surr)	50.0	51.6	103.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 160-333931/5

Matrix: Water | Lab File ID: XLCS9507.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 16:36

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	51.6		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	53.3		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	50.3		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	50.5		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	51.2		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	50.6		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	53.6		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	57.2		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	51.3		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	55.6		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	51.2		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	52.6		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	53.5		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	56.5		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	51.7		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	59.5		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	56.3		20	5.0	0.39
95-49-8	2-Chlorotoluene	56.7		5.0	2.0	0.34
591-78-6	2-Hexanone	50.3		20	2.0	0.59
106-43-4	4-Chlorotoluene	55.1		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	51.1		20	2.0	0.33
67-64-1	Acetone	46.4		20	10	6.7
71-43-2	Benzene	49.4		5.0	1.0	0.25
108-86-1	Bromobenzene	53.9		5.0	2.0	0.33
74-97-5	Bromochloromethane	47.1		5.0	2.0	0.55
75-27-4	Bromodichloromethane	52.3		5.0	2.0	0.25
75-25-2	Bromoform	52.5		5.0	1.0	0.37
74-83-9	Bromomethane	52.7		10	2.0	0.40
75-15-0	Carbon disulfide	51.1		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	53.1		5.0	1.0	0.36
108-90-7	Chlorobenzene	51.7		5.0	1.0	0.38
75-00-3	Chloroethane	52.2		10	1.0	0.38
67-66-3	Chloroform	50.6		5.0	1.0	0.15
74-87-3	Chloromethane	53.9		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	50.7		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 160-333931/5

Matrix: Water | Lab File ID: XLCS9507.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 16:36

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	48.3		5.0	1.0	0.34
124-48-1	Dibromochloromethane	50.6		5.0	1.0	0.33
74-95-3	Dibromomethane	49.4		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	48.4		10	2.0	0.45
100-41-4	Ethylbenzene	56.7		5.0	1.0	0.30
98-82-8	Isopropylbenzene	58.1		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	51.8		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	50.0		5.0	2.0	0.40
75-09-2	Methylene Chloride	48.0		7.5	5.0	1.7
91-20-3	Naphthalene	52.2		5.0	2.0	0.85
104-51-8	n-Butylbenzene	57.2		5.0	2.0	0.23
103-65-1	N-Propylbenzene	58.1		5.0	2.0	0.30
95-47-6	o-Xylene	51.2		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	57.1		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	55.6		5.0	2.0	0.31
100-42-5	Styrene	54.4		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	56.9		5.0	2.0	0.31
127-18-4	Tetrachloroethene	52.2		5.0	1.0	0.28
108-88-3	Toluene	51.4		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	49.1		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	49.8		5.0	1.0	0.35
79-01-6	Trichloroethene	49.8		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	53.7		5.0	2.0	0.22
75-01-4	Vinyl chloride	49.0		5.0	1.0	0.43

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)	97		80-119
2037-26-5	Toluene-d8 (Surr)	103		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XLCS9507.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 25-Oct-2017 16:36:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-005
Misc. Info.: LCSD
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:25:58 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:25:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.877	0.001	99	305807	50.0	48.4	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.031	2.031	0.000	99	145366	50.0	50.1	
3 Chloromethane	50	2.079	2.079	0.000	99	439569	50.0	53.9	
4 Vinyl chloride	62	2.185	2.185	0.000	97	313978	50.0	49.0	
121 Butadiene	39	2.209	2.209	0.000	88	283136	50.0	52.9	
5 Bromomethane	94	2.576	2.576	0.000	92	129554	50.0	52.7	
6 Chloroethane	64	2.730	2.741	-0.011	99	123292	50.0	52.2	
7 Trichlorofluoromethane	101	2.907	2.907	0.000	99	354005	50.0	53.7	
122 Dichlorofluoromethane	67	3.002	3.002	0.000	97	325849	50.0	52.8	
8 Ethyl ether	74	3.345	3.345	0.000	95	118215	50.0	47.6	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	93	278804	50.0	50.6	
11 Ethanol	45	3.605	3.593	0.012	25	65296	2000.0	2175.6	
10 Carbon disulfide	76	3.605	3.605	0.000	100	947869	50.0	51.1	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	94	202415	50.0	50.6	
13 Iodomethane	142	3.783	3.783	0.000	98	344975	50.0	49.8	
14 Acrolein	56	4.126	4.126	0.000	100	102013	250.0	246.4	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	93	298927	50.0	54.5	
16 Isopropyl alcohol	45	4.493	4.481	0.012	96	71527	500.0	510.6	
17 Methylene Chloride	84	4.516	4.516	0.000	99	244291	50.0	48.0	
18 Acetone	43	4.635	4.635	0.000	98	34268	50.0	46.4	
19 trans-1,2-Dichloroethene	96	4.789	4.777	0.012	97	279549	50.0	49.1	
20 Methyl acetate	74	4.860	4.859	0.001	97	35570	250.0	232.1	
21 Hexane	86	4.931	4.930	0.001	89	90495	50.0	52.0	
22 Methyl tert-butyl ether	73	5.002	5.001	0.001	93	397704	50.0	50.0	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	96	101137	500.0	467.7	
24 Acetonitrile	41	5.368	5.368	0.000	99	152590	500.0	547.8	
25 Isopropyl ether	45	5.629	5.629	0.000	95	797495	50.0	51.7	
27 2-Chloro-1,3-butadiene	53	5.723	5.711	0.012	93	525377	50.0	58.6	
28 1,1-Dichloroethane	63	5.747	5.747	0.000	98	507824	50.0	51.2	
29 Acrylonitrile	53	5.854	5.853	0.001	99	485544	500.0	553.9	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	99	596257	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
31 Vinyl acetate	43	6.185	6.185	0.000	97	376926	50.0	56.9	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	81	277447	50.0	50.7	
33 2,2-Dichloropropane	77	6.694	6.682	0.012	93	297472	50.0	59.5	
34 Cyclohexane	84	6.788	6.788	0.000	92	463578	50.0	52.2	
35 Chlorobromomethane	128	6.812	6.812	0.000	92	92395	50.0	47.1	
36 Chloroform	83	6.942	6.942	0.000	94	444329	50.0	50.6	
37 Carbon tetrachloride	117	7.096	7.084	0.012	98	351410	50.0	53.1	
38 Tetrahydrofuran	71	7.155	7.155	0.000	90	21169	100.0	83.5	
39 Ethyl acetate	45	7.167	7.167	0.000	98	36740	100.0	101.5	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.179	0.012	91	208782	50.0	48.3	
40 1,1,1-Trichloroethane	97	7.191	7.190	0.001	98	409237	50.0	53.3	
42 1,1-Dichloropropene	75	7.368	7.356	0.012	96	389357	50.0	53.6	
43 2-Butanone (MEK)	43	7.392	7.380	0.012	100	55837	50.0	56.3	
124 Isooctane	57	7.534	7.522	0.012	96	1346728	50.0	57.8	
117 n-Heptane	43	7.688	7.687	0.001	76	620908	50.0	60.9	
44 Benzene	78	7.688	7.687	0.001	97	1093074	50.0	49.4	
45 Propionitrile	54	7.759	7.758	0.001	93	182743	500.0	558.5	
46 Methacrylonitrile	41	7.782	7.782	0.000	93	840297	500.0	553.6	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	94	213491	50.0	50.9	
48 Tert-amyl methyl ether	73	7.889	7.889	0.000	94	424075	50.0	52.0	
49 1,2-Dichloroethane	62	7.972	7.960	0.012	96	259345	50.0	52.6	
50 Isobutyl alcohol	42	8.090	8.090	0.000	94	79631	1250.0	1253.8	
* 51 Fluorobenzene	96	8.256	8.244	0.012	99	1073311	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.433	0.000	93	506305	50.0	56.6	
53 Trichloroethene	95	8.457	8.457	0.000	98	291581	50.0	49.8	
54 n-Butanol	56	8.977	8.977	0.000	94	75853	1250.0	1156.0	
55 Dibromomethane	93	8.989	8.989	0.000	92	101630	50.0	49.4	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	94	259410	50.0	53.5	
123 Ethyl acrylate	55	9.214	9.214	0.000	99	163670	50.0	48.7	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	302589	50.0	52.3	
58 Methyl methacrylate	69	9.463	9.462	0.001	95	176260	100.0	93.1	
59 1,4-Dioxane	88	9.486	9.486	0.000	79	22605	1000.0	918.8	
60 2-Chloroethyl vinyl ether	63	9.971	9.971	0.000	92	41559	50.0	176.8	
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	94	343089	50.0	48.3	
$ 62 Toluene-d8 (Surr)	98	10.244	10.243	0.001	94	966559	50.0	51.5	
63 Toluene	92	10.303	10.303	0.000	98	702978	50.0	51.4	
64 2-Nitropropane	43	10.610	10.610	0.000	98	60444	100.0	105.3	
65 Tetrachloroethene	164	10.764	10.764	0.000	94	216642	50.0	52.2	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.800	0.000	97	118919	50.0	51.1	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	95	275560	50.0	49.8	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	93	132915	50.0	50.5	
69 Ethyl methacrylate	69	11.036	11.036	0.000	86	172661	50.0	44.9	
70 Chlorodibromomethane	129	11.190	11.190	0.000	91	162072	50.0	50.6	
71 1,3-Dichloropropane	76	11.297	11.296	0.001	94	275589	50.0	51.7	
72 Ethylene Dibromide	107	11.439	11.438	0.001	98	134017	50.0	51.2	
118 n-Butyl acetate	43	11.628	11.628	0.000	98	193291	50.0	47.5	
74 2-Hexanone	43	11.723	11.722	0.001	98	82858	50.0	50.3	
* 76 Chlorobenzene-d5	117	11.983	11.983	0.000	89	651076	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	85	432225	50.0	47.7	
77 Chlorobenzene	112	11.995	11.995	0.000	97	698396	50.0	51.7	
78 Ethylbenzene	91	12.042	12.030	0.012	96	1442942	50.0	56.7	
79 1,1,1,2-Tetrachloroethane	131	12.066	12.066	0.000	94	207359	50.0	51.6	

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	12.184	12.184	0.000	96	492694	50.0	51.8	
82 o-Xylene	106	12.610	12.610	0.000	98	450198	50.0	51.2	
83 Styrene	104	12.657	12.657	0.000	95	704481	50.0	54.4	
84 Bromoform	173	12.681	12.681	0.000	95	73814	50.0	52.5	
85 Isopropylbenzene	105	12.918	12.906	0.012	96	1276407	50.0	58.1	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	296664	50.0	51.9	
87 Bromobenzene	156	13.273	13.273	0.000	95	230027	50.0	53.9	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	1589162	50.0	58.1	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	94	153936	50.0	50.3	
90 2-Chlorotoluene	91	13.438	13.438	0.000	95	884948	50.0	56.7	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	976677	50.0	56.5	
92 1,2,3-Trichloropropane	110	13.498	13.486	0.012	82	43417	50.0	51.3	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	88	49728	50.0	53.5	
94 Cyclohexanone	55	13.533	13.533	0.000	72	36386	500.0	444.4	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	869662	50.0	55.1	
96 tert-Butylbenzene	119	13.770	13.770	0.000	93	846786	50.0	56.9	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	98	953943	50.0	55.6	
98 sec-Butylbenzene	105	13.924	13.923	0.001	95	1360545	50.0	55.6	
99 4-Isopropyltoluene	119	14.054	14.054	0.000	97	1068235	50.0	57.1	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	458615	50.0	51.3	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	266221	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.196	0.012	93	439894	50.0	51.3	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	99	844359	50.0	52.6	
120 Benzyl chloride	126	14.421	14.420	0.001	89	51579	50.0	56.8	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	278834	50.0	57.2	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	373882	50.0	51.3	
105 1,2-Dibromo-3-Chloropropan	157	15.261	15.261	0.000	83	17565	50.0	46.3	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	59	95640	50.0	54.6	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	323629	50.0	56.4	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	138966	50.0	52.2	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	93	240173	50.0	58.3	
110 Naphthalene	128	16.113	16.112	0.001	97	380288	50.0	52.2	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	197477	50.0	57.2	

Reagents:

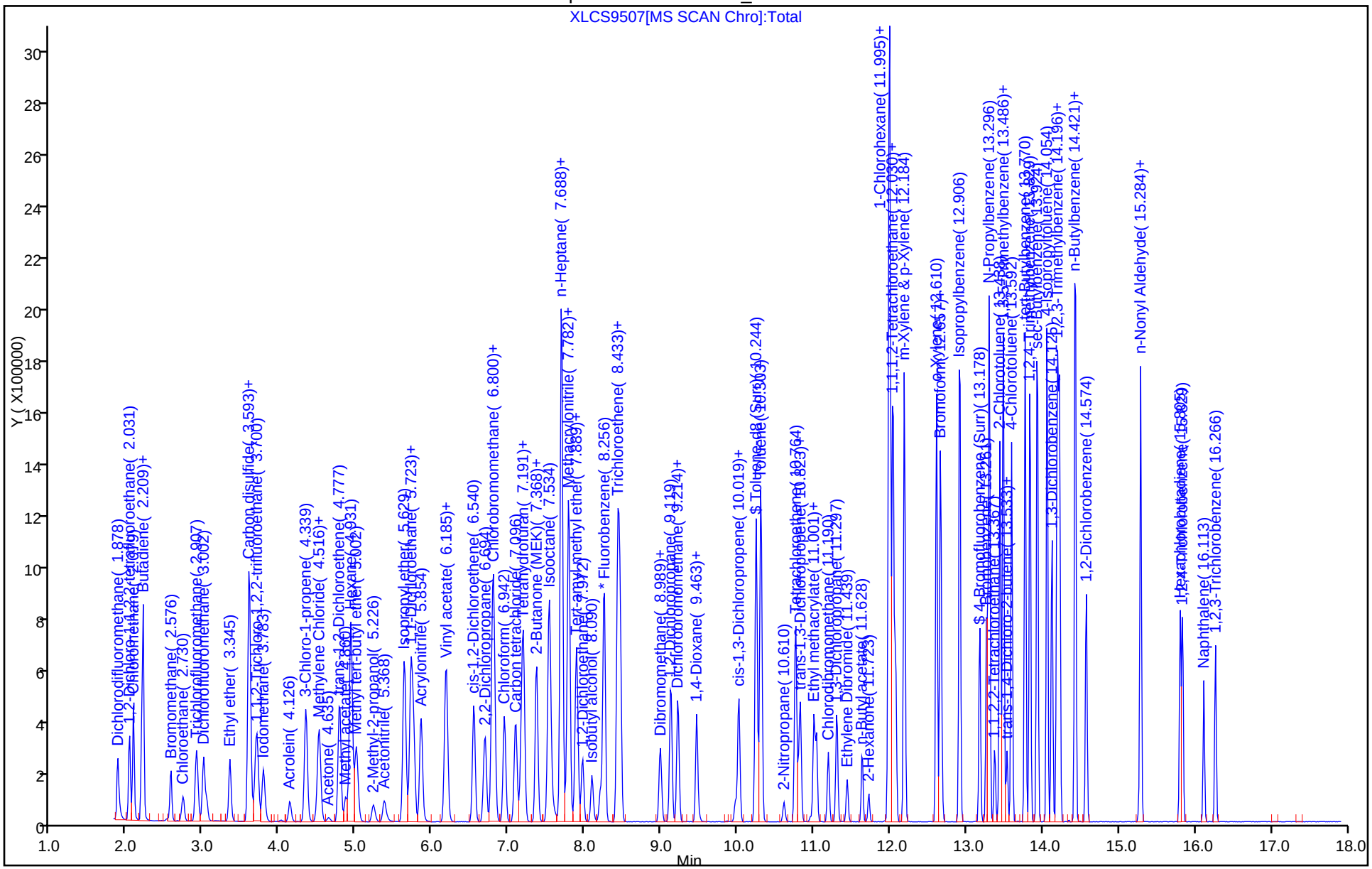
8260 NewWkMix_00243	Amount Added: 10.00	Units: uL	
I.S. Working_00154	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 31-Oct-2017 16:25:59 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XLCS9507.D

Injection Date:	25-Oct-2017 16:36:30	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\20171025-11764.b\XLCS9507.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 25-Oct-2017 16:36:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-005
Misc. Info.: LCSD
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:25:58 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:25:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	48.3	96.65
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.9	101.89
$ 62 Toluene-d8 (Surr)	50.0	51.5	102.90
$ 86 4-Bromofluorobenzene (Surr)	50.0	51.9	103.81

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2006MS MS | Lab Sample ID: 280-102516-1 MS

Matrix: Water | Lab File ID: XSMP9476.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 23:19

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | 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	51.6		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	50.0		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	50.4		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	47.9		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	50.4		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	49.5		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	52.5		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	42.9		10	2.0	1.2
106-93-4	1,2-Dibromoethane	50.3		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	54.2		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	52.7		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	53.0		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	51.1		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	56.8		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	57.6		20	5.0	0.39
95-49-8	2-Chlorotoluene	52.7		5.0	2.0	0.34
591-78-6	2-Hexanone	49.3		20	2.0	0.59
106-43-4	4-Chlorotoluene	52.8		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	49.6		20	2.0	0.33
67-64-1	Acetone	46.8		20	10	6.7
71-43-2	Benzene	49.2		5.0	1.0	0.25
108-86-1	Bromobenzene	51.7		5.0	2.0	0.33
74-97-5	Bromochloromethane	49.6		5.0	2.0	0.55
75-27-4	Bromodichloromethane	54.0		5.0	2.0	0.25
75-25-2	Bromoform	52.7		5.0	1.0	0.37
74-83-9	Bromomethane	44.1		10	2.0	0.40
75-15-0	Carbon disulfide	50.7		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	49.8		5.0	1.0	0.36
108-90-7	Chlorobenzene	49.7		5.0	1.0	0.38
75-00-3	Chloroethane	55.1		10	1.0	0.38
67-66-3	Chloroform	49.5		5.0	1.0	0.15
74-87-3	Chloromethane	44.3		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	51.6		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2006MS MS | Lab Sample ID: 280-102516-1 MS

Matrix: Water | Lab File ID: XSMP9476.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 23:19

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	46.7		5.0	1.0	0.34
124-48-1	Dibromochloromethane	51.1		5.0	1.0	0.33
74-95-3	Dibromomethane	51.5		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	49.5		10	2.0	0.45
100-41-4	Ethylbenzene	55.4		5.0	1.0	0.30
98-82-8	Isopropylbenzene	53.1		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	49.6		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	50.1		5.0	2.0	0.40
75-09-2	Methylene Chloride	48.8		7.5	5.0	1.7
91-20-3	Naphthalene	46.2		5.0	2.0	0.85
104-51-8	n-Butylbenzene	53.7		5.0	2.0	0.23
103-65-1	N-Propylbenzene	53.9		5.0	2.0	0.30
95-47-6	o-Xylene	48.9		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	52.6		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	51.2		5.0	2.0	0.31
100-42-5	Styrene	54.2		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	52.2		5.0	2.0	0.31
127-18-4	Tetrachloroethene	49.9		5.0	1.0	0.28
108-88-3	Toluene	49.6		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	47.7		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	48.8		5.0	1.0	0.35
79-01-6	Trichloroethene	49.0		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	53.6		5.0	2.0	0.22
75-01-4	Vinyl chloride	42.9		5.0	1.0	0.43
1330-20-7	Xylenes (total)	98.5		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)	98		85-114
1868-53-7	Dibromofluoromethane (Surr)	99		80-119
2037-26-5	Toluene-d8 (Surr)	98		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9476.D
Lims ID: 280-102516-A-1 MS
Client ID: 6MW2006MS
Sample Type: MS
Inject. Date: 24-Oct-2017 23:19:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-011
Misc. Info.: 280-102516-A-1 MS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:51:12 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:51:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.877	0.001	99	279169	50.0	49.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.031	2.031	0.000	99	127711	50.0	49.3	
3 Chloromethane	50	2.091	2.090	0.001	99	322520	50.0	44.3	
4 Vinyl chloride	62	2.197	2.197	0.000	98	245805	50.0	42.9	
121 Butadiene	39	2.209	2.209	0.000	89	222008	50.0	46.5	
5 Bromomethane	94	2.576	2.576	0.000	92	96915	50.0	44.1	
6 Chloroethane	64	2.730	2.741	-0.011	98	116044	50.0	55.1	
7 Trichlorofluoromethane	101	2.907	2.919	-0.012	99	315620	50.0	53.6	
122 Dichlorofluoromethane	67	3.002	3.002	0.000	97	290022	50.0	52.6	
8 Ethyl ether	74	3.357	3.345	0.012	95	103933	50.0	46.9	
9 1,1-Dichloroethene	96	3.605	3.593	0.012	96	235790	50.0	47.9	
11 Ethanol	45	3.605	3.605	0.000	27	61108	2000.0	2277.1	
10 Carbon disulfide	76	3.605	3.605	0.000	100	839792	50.0	50.7	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	95	172903	50.0	48.4	
13 Iodomethane	142	3.795	3.794	0.001	98	294779	50.0	47.6	
14 Acrolein	56	4.138	4.138	0.000	98	89304	250.0	241.9	
15 3-Chloro-1-propene	39	4.351	4.339	0.012	93	260681	50.0	53.2	
16 Isopropyl alcohol	45	4.493	4.493	0.000	95	71267	500.0	566.5	
17 Methylene Chloride	84	4.516	4.516	0.000	99	221771	50.0	48.8	
18 Acetone	43	4.635	4.635	0.000	99	30873	50.0	46.8	
19 trans-1,2-Dichloroethene	96	4.789	4.788	0.001	97	242670	50.0	47.7	
20 Methyl acetate	74	4.871	4.871	0.000	98	33596	250.0	245.0	
21 Hexane	86	4.942	4.930	0.012	89	76513	50.0	49.3	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	96	355887	50.0	50.1	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	92	87380	500.0	453.7	
24 Acetonitrile	41	5.380	5.368	0.012	98	146068	500.0	587.4	
25 Isopropyl ether	45	5.641	5.640	0.000	95	699485	50.0	50.8	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	93	444799	50.0	55.5	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	98	446774	50.0	50.4	
S 26 1,2-Dichloroethene, Total	96				0			99.3	
29 Acrylonitrile	53	5.853	5.853	0.000	99	443230	500.0	566.4	

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	6.185	6.173	0.012	99	527471	50.0	49.1	
31 Vinyl acetate	43	6.197	6.197	0.001	97	343306	50.0	58.1	
32 cis-1,2-Dichloroethene	96	6.552	6.540	0.012	81	251811	50.0	51.6	
33 2,2-Dichloropropane	77	6.694	6.693	0.001	93	253520	50.0	56.8	
34 Cyclohexane	84	6.800	6.800	0.000	92	397987	50.0	50.2	
35 Chlorobromomethane	128	6.812	6.812	0.000	95	86706	50.0	49.6	
36 Chloroform	83	6.954	6.942	0.012	95	387840	50.0	49.5	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	294731	50.0	49.8	
38 Tetrahydrofuran	71	7.155	7.155	0.000	93	19726	100.0	86.7	
39 Ethyl acetate	45	7.167	7.167	0.000	98	33738	100.0	104.4	
40 1,1,1-Trichloroethane	97	7.191	7.190	0.001	97	354160	50.0	51.6	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.190	0.001	91	190230	50.0	49.3	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	95	326834	50.0	50.4	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	98	50994	50.0	57.6	
124 Isooctane	57	7.534	7.534	0.000	96	1181329	50.0	56.8	
117 n-Heptane	43	7.688	7.687	0.001	77	528223	50.0	58.0	
44 Benzene	78	7.699	7.687	0.012	97	971997	50.0	49.2	
45 Propionitrile	54	7.770	7.758	0.012	96	164280	500.0	562.4	
46 Methacrylonitrile	41	7.794	7.782	0.012	93	789324	500.0	582.5	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.889	7.877	0.012	95	197535	50.0	52.8	
48 Tert-amyl methyl ether	73	7.901	7.889	0.012	94	386698	50.0	53.1	
49 1,2-Dichloroethane	62	7.972	7.971	0.001	97	238529	50.0	54.2	
50 Isobutyl alcohol	42	8.090	8.090	0.000	92	72030	1250.0	1269.5	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	958145	50.0	50.0	
125 1,4-Difluorobenzene	114		8.427					ND	
52 Methylcyclohexane	55	8.433	8.433	0.000	94	438801	50.0	55.0	
53 Trichloroethene	95	8.469	8.457	0.012	98	256536	50.0	49.0	
A 126 C6-C12	1	8.921	(3.966-13.876)		0	82900090		NC	
54 n-Butanol	56	8.989	8.977	0.012	94	66652	1250.0	1140.6	
55 Dibromomethane	93	8.989	8.989	0.000	96	94540	50.0	51.5	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	94	228143	50.0	52.7	
123 Ethyl acrylate	55	9.214	9.214	0.000	99	149901	50.0	49.8	
57 Dichlorobromomethane	83	9.226	9.214	0.012	99	279128	50.0	54.0	
58 Methyl methacrylate	69	9.463	9.462	0.001	94	158982	100.0	94.0	
59 1,4-Dioxane	88	9.486	9.486	0.000	77	19899	1000.0	907.0	
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63	9.971	9.971	0.000	84	10083	50.0	48.0	
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	95	295633	50.0	46.7	
$ 62 Toluene-d8 (Surr)	98	10.244	10.243	0.001	94	850454	50.0	49.2	
63 Toluene	92	10.303	10.303	0.000	98	623865	50.0	49.6	
64 2-Nitropropane	43	10.610	10.610	0.000	97	54451	100.0	103.3	
65 Tetrachloroethene	164	10.764	10.764	0.000	94	190544	50.0	49.9	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.800	0.000	98	106016	50.0	49.6	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	95	248220	50.0	48.8	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	92	121093	50.0	50.0	
69 Ethyl methacrylate	69	11.036	11.036	0.000	74	153977	50.0	43.7	
70 Chlorodibromomethane	129	11.190	11.190	0.000	91	150663	50.0	51.1	
71 1,3-Dichloropropane	76	11.308	11.296	0.012	94	250887	50.0	51.1	
72 Ethylene Dibromide	107	11.439	11.438	0.001	99	121122	50.0	50.3	
S 73 1,3-Dichloropropene, Total	75				0			95.5	
118 n-Butyl acetate	43	11.640	11.628	0.012	98	169295	50.0	45.6	
74 2-Hexanone	43	11.723	11.722	0.001	97	74598	50.0	49.3	

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	11.983	11.983	0.000	89	599298	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	87	362085	50.0	43.4	
77 Chlorobenzene	112	12.007	11.995	0.012	96	617860	50.0	49.7	
78 Ethylbenzene	91	12.042	12.042	0.000	96	1299093	50.0	55.4	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.066	0.012	94	185776	50.0	50.2	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	96	434032	50.0	49.6	
82 o-Xylene	106	12.610	12.610	0.000	98	394808	50.0	48.9	
83 Styrene	104	12.657	12.657	0.000	96	646570	50.0	54.2	
84 Bromoform	173	12.681	12.681	0.000	95	70000	50.0	52.7	
85 Isopropylbenzene	105	12.918	12.918	0.000	97	1102281	50.0	53.1	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	264858	50.0	49.0	
87 Bromobenzene	156	13.273	13.273	0.000	94	208807	50.0	51.7	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	1393915	50.0	53.9	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	95	139964	50.0	48.4	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	777125	50.0	52.7	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	865237	50.0	53.0	
92 1,2,3-Trichloropropane	110	13.498	13.497	0.001	84	39583	50.0	49.5	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	88	46856	50.0	53.3	
94 Cyclohexanone	55	13.533	13.533	0.000	66	29612	500.0	387.3	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	787881	50.0	52.8	
96 tert-Butylbenzene	119	13.770	13.770	0.000	94	733311	50.0	52.2	
81 Pentachloroethane	167		13.776					ND	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	98	852831	50.0	52.5	
98 sec-Butylbenzene	105	13.935	13.923	0.012	95	1184292	50.0	51.2	
99 4-Isopropyltoluene	119	14.054	14.054	0.000	97	930804	50.0	52.6	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	417789	50.0	49.4	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	251663	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.208	14.207	0.001	95	406697	50.0	50.2	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	99	774230	50.0	51.0	
120 Benzyl chloride	126	14.421	14.420	0.001	89	48125	50.0	56.1	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	247384	50.0	53.7	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	339922	50.0	49.3	
105 1,2-Dibromo-3-Chloropropan	157	15.261	15.261	0.000	84	15271	50.0	42.9	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	58	81663	50.0	49.7	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	287622	50.0	53.0	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	117874	50.0	46.8	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	94	215667	50.0	55.4	
110 Naphthalene	128	16.113	16.112	0.001	97	316359	50.0	46.2	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	96	174624	50.0	53.5	
S 112 Xylenes, Total	106				0			98.5	
S 113 Trihalomethanes, Total	1				0			207.4	
127 2-Methylpentane	43		4.061					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

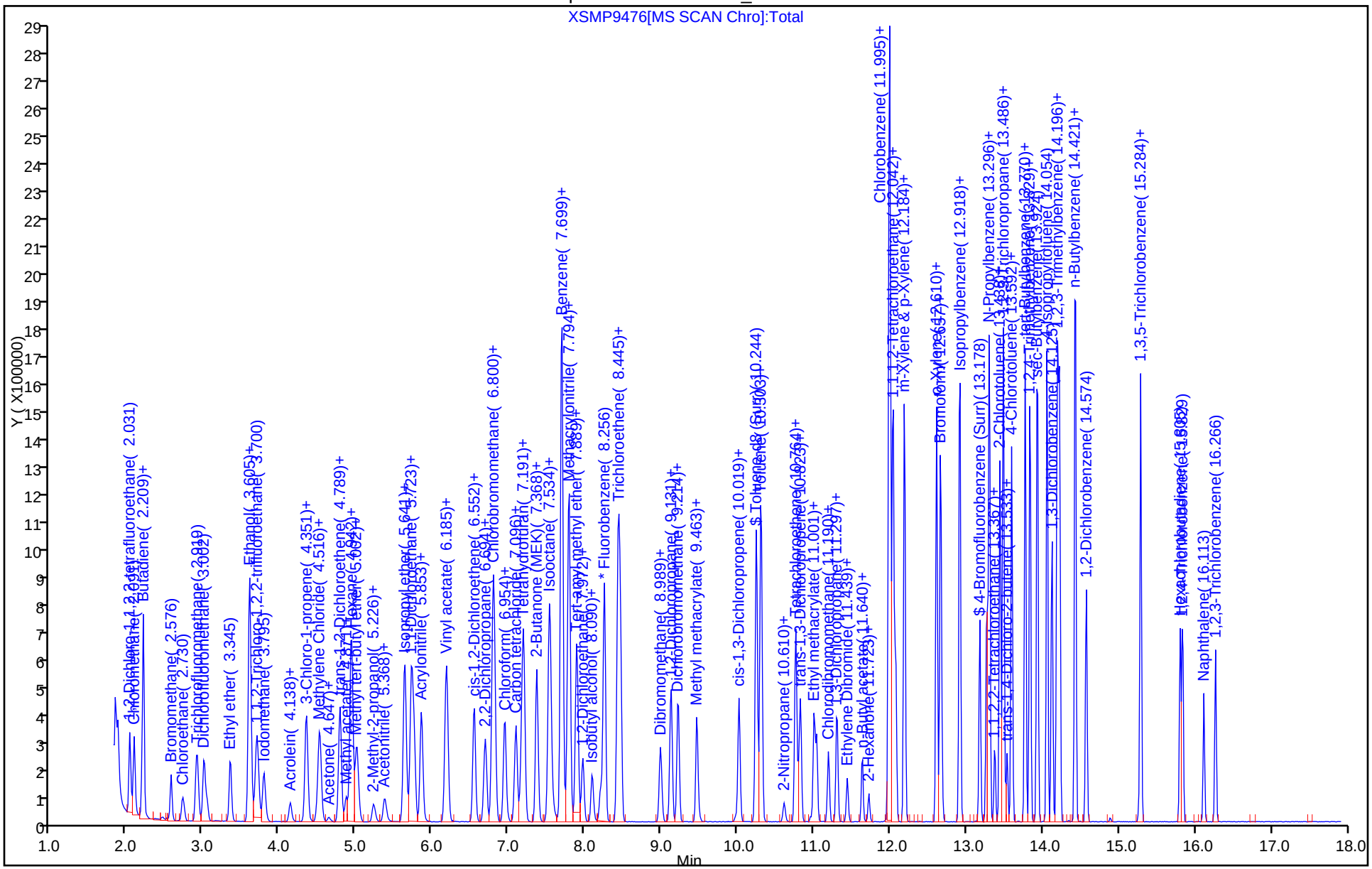
8260 NewWkMix_00243	Amount Added:	10.00	Units: uL	
I.S. Working_00154	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 25-Oct-2017 21:51:12 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9476.D

Injection Date:	24-Oct-2017 23:19:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-102516-A-1 MS			Worklist Smp#:	11
Client ID:	6MW2006MS				
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\20171024-11757.b\XSMP9476.D
Lims ID: 280-102516-A-1 MS
Client ID: 6MW2006MS
Sample Type: MS
Inject. Date: 24-Oct-2017 23:19:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-011
Misc. Info.: 280-102516-A-1 MS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:51:12 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:51:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.3	98.64
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	52.8	105.61
$ 62 Toluene-d8 (Surr)	50.0	49.2	98.37
$ 86 4-Bromofluorobenzene (Surr)	50.0	49.0	98.04

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2606 MS | Lab Sample ID: 280-102516-7 MS

Matrix: Water | Lab File ID: XSMP9515.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 20:47

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	52.2		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	58.5		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	50.4		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	52.3		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	57.0		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	56.6		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	57.3		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	55.5		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	50.4		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	54.9		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	45.9		10	2.0	1.2
106-93-4	1,2-Dibromoethane	51.5		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	57.0		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	58.4		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	55.8		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	52.1		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	61.3		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	57.8		20	5.0	0.39
95-49-8	2-Chlorotoluene	56.0		5.0	2.0	0.34
591-78-6	2-Hexanone	47.2		20	2.0	0.59
106-43-4	4-Chlorotoluene	55.0		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	48.7		20	2.0	0.33
67-64-1	Acetone	46.7		20	10	6.7
71-43-2	Benzene	54.9		5.0	1.0	0.25
108-86-1	Bromobenzene	54.6		5.0	2.0	0.33
74-97-5	Bromochloromethane	53.4		5.0	2.0	0.55
75-27-4	Bromodichloromethane	57.2		5.0	2.0	0.25
75-25-2	Bromoform	52.8		5.0	1.0	0.37
74-83-9	Bromomethane	53.0		10	2.0	0.40
75-15-0	Carbon disulfide	59.4		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	55.4		5.0	1.0	0.36
108-90-7	Chlorobenzene	53.1		5.0	1.0	0.38
75-00-3	Chloroethane	63.0		10	1.0	0.38
67-66-3	Chloroform	54.8		5.0	1.0	0.15
74-87-3	Chloromethane	50.7		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	59.9		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2606 MS | Lab Sample ID: 280-102516-7 MS

Matrix: Water | Lab File ID: XSMP9515.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 20:47

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	49.6		5.0	1.0	0.34
124-48-1	Dibromochloromethane	53.9		5.0	1.0	0.33
74-95-3	Dibromomethane	55.1		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	58.3		10	2.0	0.45
100-41-4	Ethylbenzene	56.8		5.0	1.0	0.30
98-82-8	Isopropylbenzene	56.7		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	52.5		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	53.8		5.0	2.0	0.40
75-09-2	Methylene Chloride	54.5		7.5	5.0	1.7
91-20-3	Naphthalene	46.8		5.0	2.0	0.85
104-51-8	n-Butylbenzene	55.2		5.0	2.0	0.23
103-65-1	N-Propylbenzene	57.0		5.0	2.0	0.30
95-47-6	o-Xylene	51.4		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	55.6		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	54.2		5.0	2.0	0.31
100-42-5	Styrene	53.9		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	55.1		5.0	2.0	0.31
127-18-4	Tetrachloroethene	53.2		5.0	1.0	0.28
108-88-3	Toluene	53.3		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	56.0		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	49.5		5.0	1.0	0.35
79-01-6	Trichloroethene	55.0		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	63.9		5.0	2.0	0.22
75-01-4	Vinyl chloride	52.1		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)	106		81-118
460-00-4	4-Bromofluorobenzene (Surr)	97		85-114
1868-53-7	Dibromofluoromethane (Surr)	99		80-119
2037-26-5	Toluene-d8 (Surr)	98		89-112

Report Date: 31-Oct-2017 16:29:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9515.D
Lims ID: 280-102516-B-7 MS
Client ID:
Sample Type: MS
Inject. Date: 25-Oct-2017 20:47:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-013
Misc. Info.: 280-102516-B-7 MS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:29:16 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:29:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.877	0.001	99	322989	50.0	58.3	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.031	2.031	0.000	99	158570	50.0	62.2	
3 Chloromethane	50	2.091	2.090	0.001	99	363054	50.0	50.7	
4 Vinyl chloride	62	2.197	2.197	0.000	98	293049	50.0	52.1	
121 Butadiene	39	2.209	2.209	0.000	89	243056	50.0	51.7	
5 Bromomethane	94	2.576	2.576	0.000	92	114451	50.0	53.0	
6 Chloroethane	64	2.741	2.741	0.000	99	130468	50.0	63.0	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	99	369623	50.0	63.9	
122 Dichlorofluoromethane	67	3.002	3.013	-0.011	97	356147	50.0	65.7	
8 Ethyl ether	74	3.345	3.345	0.000	95	121663	50.0	55.8	
9 1,1-Dichloroethene	96	3.593	3.605	-0.012	94	273630	50.0	56.6	
11 Ethanol	45	3.593	3.605	-0.012	26	58883	2000.0	2233.4	
10 Carbon disulfide	76	3.605	3.605	0.000	100	968206	50.0	59.4	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.712	-0.012	95	199548	50.0	56.8	
13 Iodomethane	142	3.783	3.794	-0.011	98	337846	50.0	55.5	
14 Acrolein	56	4.138	4.138	0.000	99	106480	250.0	290.4	
15 3-Chloro-1-propene	39	4.339	4.351	-0.012	93	294352	50.0	61.1	
16 Isopropyl alcohol	45	4.481	4.493	-0.012	94	67926	500.0	550.1	
17 Methylene Chloride	84	4.516	4.528	-0.012	99	243330	50.0	54.5	
18 Acetone	43	4.635	4.646	-0.011	99	30272	50.0	46.7	
19 trans-1,2-Dichloroethene	96	4.789	4.788	0.001	97	280138	50.0	56.0	
20 Methyl acetate	74	4.860	4.871	-0.011	98	34333	250.0	254.3	
21 Hexane	86	4.931	4.942	-0.011	89	90893	50.0	59.5	
22 Methyl tert-butyl ether	73	5.002	5.013	-0.011	95	375586	50.0	53.8	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	92	89723	500.0	472.4	
24 Acetonitrile	41	5.368	5.380	-0.012	99	149990	500.0	613.5	
25 Isopropyl ether	45	5.629	5.640	-0.011	94	758288	50.0	55.8	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	93	498644	50.0	63.3	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	98	496285	50.0	57.0	
S 26 1,2-Dichloroethene, Total	96				0			116.0	
29 Acrylonitrile	53	5.854	5.853	0.001	100	483168	500.0	628.0	

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	6.173	6.173	0.000	96	554333	50.0	52.3	
31 Vinyl acetate	43	6.197	6.196	0.001	98	364315	50.0	62.7	
32 cis-1,2-Dichloroethene	96	6.540	6.551	-0.011	80	287577	50.0	59.9	
33 2,2-Dichloropropane	77	6.694	6.693	0.001	94	268946	50.0	61.3	
34 Cyclohexane	84	6.788	6.800	-0.012	96	449436	50.0	57.6	
35 Chlorobromomethane	128	6.812	6.812	0.000	92	91920	50.0	53.4	
36 Chloroform	83	6.942	6.942	0.000	95	422222	50.0	54.8	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	322303	50.0	55.4	
38 Tetrahydrofuran	71	7.155	7.155	0.000	91	21463	100.0	95.1	
39 Ethyl acetate	45	7.167	7.167	0.000	98	34747	100.0	109.3	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.190	0.001	92	187138	50.0	49.4	
40 1,1,1-Trichloroethane	97	7.191	7.190	0.001	98	394443	50.0	58.5	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	95	365198	50.0	57.3	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	99	50307	50.0	57.8	
124 Isooctane	57	7.534	7.534	0.000	96	1267319	50.0	62.0	
117 n-Heptane	43	7.688	7.687	0.001	77	592257	50.0	66.2	
44 Benzene	78	7.688	7.699	-0.011	97	1066762	50.0	54.9	
45 Propionitrile	54	7.759	7.770	-0.011	93	173882	500.0	605.5	
46 Methacrylonitrile	41	7.782	7.794	-0.012	93	812484	500.0	609.9	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	94	195136	50.0	53.1	
48 Tert-amyl methyl ether	73	7.889	7.900	-0.011	92	395264	50.0	55.2	
49 1,2-Dichloroethane	62	7.972	7.971	0.001	97	246703	50.0	57.0	
50 Isobutyl alcohol	42	8.090	8.090	0.000	92	74762	1250.0	1336.0	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	941975	50.0	50.0	
125 1,4-Difluorobenzene	114		8.427					ND	
52 Methylcyclohexane	55	8.433	8.433	0.000	93	473631	50.0	60.3	
53 Trichloroethene	95	8.457	8.468	-0.011	98	282682	50.0	55.0	
A 126 C6-C12	1	8.921	(3.966-13.876)		0	87453907		NC	
54 n-Butanol	56	8.977	8.977	0.000	95	64720	1250.0	1128.8	
55 Dibromomethane	93	8.989	8.989	0.000	92	99455	50.0	55.1	
56 1,2-Dichloropropane	63	9.119	9.131	-0.012	94	248252	50.0	58.4	
123 Ethyl acrylate	55	9.214	9.214	0.000	99	152078	50.0	51.3	
57 Dichlorobromomethane	83	9.214	9.226	-0.012	99	290527	50.0	57.2	
58 Methyl methacrylate	69	9.463	9.462	0.001	95	159761	100.0	95.9	
59 1,4-Dioxane	88	9.486	9.486	0.000	80	21608	1000.0	994.2	
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63		9.971				ND	ND	
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	94	309672	50.0	49.6	
$ 62 Toluene-d8 (Surr)	98	10.244	10.243	0.001	94	835142	50.0	48.9	
63 Toluene	92	10.303	10.303	0.001	98	662262	50.0	53.3	
64 2-Nitropropane	43	10.610	10.610	0.000	95	52355	100.0	100.8	
65 Tetrachloroethene	164	10.764	10.764	0.000	95	200671	50.0	53.2	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.799	0.001	98	102677	50.0	48.7	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	95	248956	50.0	49.5	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	91	125028	50.0	52.3	
69 Ethyl methacrylate	69	11.036	11.036	0.000	83	152644	50.0	43.8	
70 Chlorodibromomethane	129	11.190	11.190	0.000	90	156809	50.0	53.9	
71 1,3-Dichloropropane	76	11.297	11.296	0.001	93	252750	50.0	52.1	
72 Ethylene Dibromide	107	11.439	11.438	0.001	99	122425	50.0	51.5	
S 73 1,3-Dichloropropene, Total	75				0			99.1	
118 n-Butyl acetate	43	11.628	11.628	0.000	98	169317	50.0	46.1	
74 2-Hexanone	43	11.723	11.722	0.001	98	70327	50.0	47.2	

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	11.983	11.983	0.000	89	591905	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	81	391889	50.0	47.6	
77 Chlorobenzene	112	11.995	11.995	0.000	97	651551	50.0	53.1	
78 Ethylbenzene	91	12.030	12.042	-0.012	96	1314751	50.0	56.8	
79 1,1,1,2-Tetrachloroethane	131	12.066	12.066	0.000	94	190988	50.0	52.2	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	97	454049	50.0	52.5	
82 o-Xylene	106	12.610	12.610	0.000	98	410679	50.0	51.4	
83 Styrene	104	12.657	12.657	0.000	95	634350	50.0	53.9	
84 Bromoform	173	12.681	12.681	0.000	95	68641	50.0	52.8	
85 Isopropylbenzene	105	12.906	12.918	-0.012	97	1152676	50.0	56.7	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	83	257019	50.0	48.6	
87 Bromobenzene	156	13.273	13.273	0.000	94	215668	50.0	54.6	
88 N-Propylbenzene	91	13.296	13.296	0.000	99	1441837	50.0	57.0	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	95	142538	50.0	50.4	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	809057	50.0	56.0	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	892883	50.0	55.8	
92 1,2,3-Trichloropropane	110	13.498	13.497	0.001	83	39451	50.0	50.4	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	87	46160	50.0	53.6	
94 Cyclohexanone	55	13.533	13.533	0.000	67	29354	500.0	391.8	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	802903	50.0	55.0	
96 tert-Butylbenzene	119	13.770	13.770	0.000	93	758822	50.0	55.1	
81 Pentachloroethane	167		13.776					ND	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	98	872479	50.0	54.9	
98 sec-Butylbenzene	105	13.924	13.923	0.001	95	1227369	50.0	54.2	
99 4-Isopropyltoluene	119	14.054	14.054	0.000	97	962162	50.0	55.6	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	426569	50.0	51.5	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	246344	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.196	14.207	-0.011	95	412948	50.0	52.1	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	99	790669	50.0	53.2	
120 Benzyl chloride	126	14.421	14.420	0.001	90	46388	50.0	55.2	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	248853	50.0	55.2	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	347448	50.0	51.5	
105 1,2-Dibromo-3-Chloropropan	157	15.261	15.260	0.001	84	16093	50.0	45.9	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	55	74884	50.0	46.8	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	289924	50.0	54.6	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	124523	50.0	50.5	
109 1,2,4-Trichlorobenzene	180	15.829	15.828	0.001	94	215597	50.0	56.6	
110 Naphthalene	128	16.113	16.112	0.001	97	313924	50.0	46.8	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	177309	50.0	55.5	
S 112 Xylenes, Total	106				0			103.9	
S 113 Trihalomethanes, Total	1				0			218.7	
127 2-Methylpentane	43		4.061					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

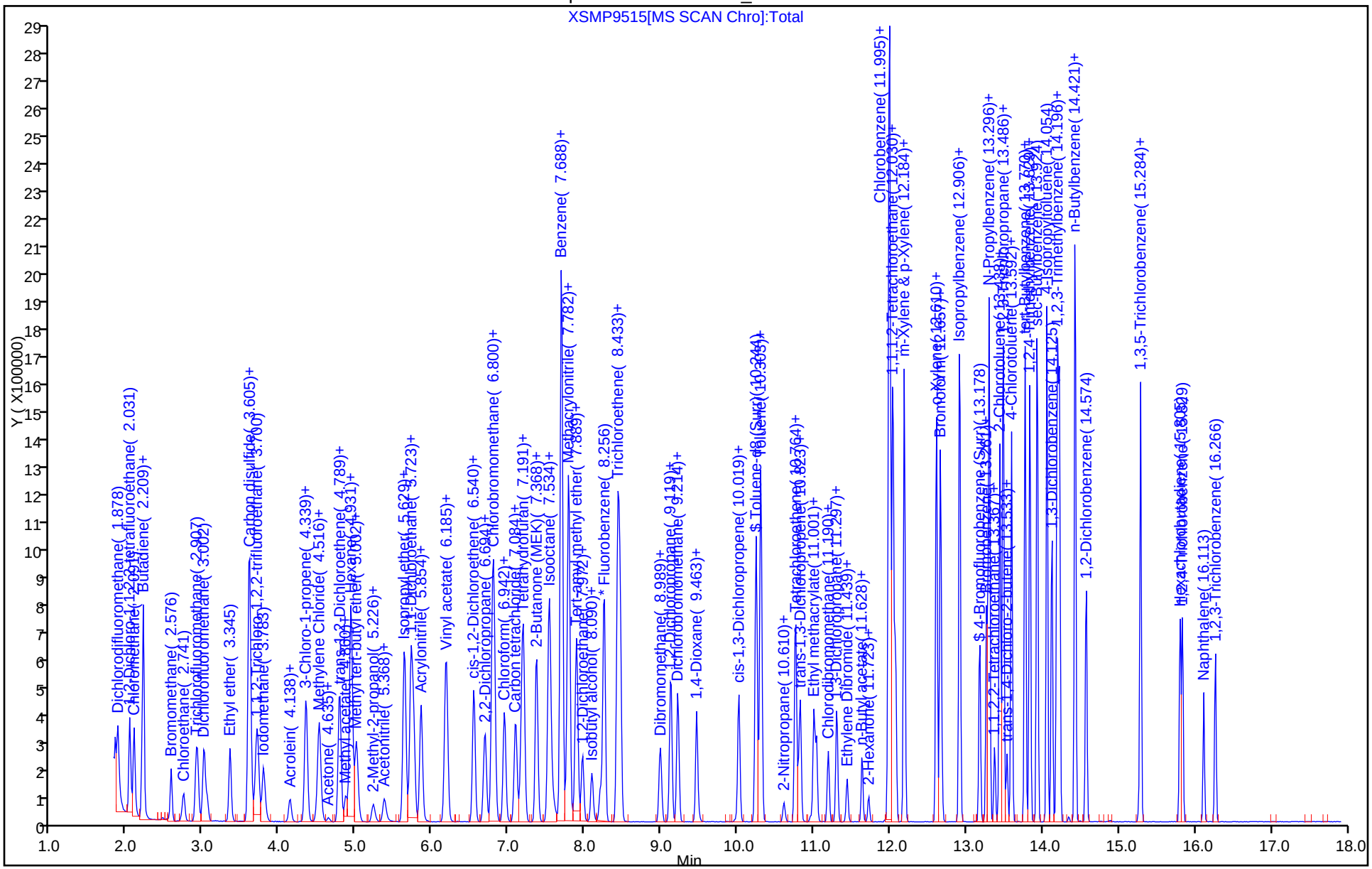
8260 NewWkMix_00243	Amount Added:	10.00	Units: uL	
I.S. Working_00154	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 31-Oct-2017 16:29:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9515.D

Injection Date:	25-Oct-2017 20:47:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-102516-B-7 MS			Worklist Smp#:	13
Client ID:					
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\20171025-11764.b\XSMP9515.D
Lims ID: 280-102516-B-7 MS
Client ID:
Sample Type: MS
Inject. Date: 25-Oct-2017 20:47:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-013
Misc. Info.: 280-102516-B-7 MS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:29:16 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:29:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.4	98.71
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	53.1	106.12
$ 62 Toluene-d8 (Surr)	50.0	48.9	97.80
$ 86 4-Bromofluorobenzene (Surr)	50.0	48.6	97.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2006MSD MSD | Lab Sample ID: 280-102516-1 MSD

Matrix: Water | Lab File ID: XSMP9477.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 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.: 333745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	52.7		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	56.3		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	50.4		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	52.3		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	54.2		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	50.7		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	55.1		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	59.8		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	56.2		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	47.2		10	2.0	1.2
106-93-4	1,2-Dibromoethane	55.0		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	56.1		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	57.5		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	56.2		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	55.5		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	61.8		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	62.2		20	5.0	0.39
95-49-8	2-Chlorotoluene	57.3		5.0	2.0	0.34
591-78-6	2-Hexanone	53.5		20	2.0	0.59
106-43-4	4-Chlorotoluene	55.2		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	53.4		20	2.0	0.33
67-64-1	Acetone	52.6		20	10	6.7
71-43-2	Benzene	52.7		5.0	1.0	0.25
108-86-1	Bromobenzene	55.4		5.0	2.0	0.33
74-97-5	Bromochloromethane	49.9		5.0	2.0	0.55
75-27-4	Bromodichloromethane	56.6		5.0	2.0	0.25
75-25-2	Bromoform	54.3		5.0	1.0	0.37
74-83-9	Bromomethane	48.6		10	2.0	0.40
75-15-0	Carbon disulfide	54.0		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	54.0		5.0	1.0	0.36
108-90-7	Chlorobenzene	53.1		5.0	1.0	0.38
75-00-3	Chloroethane	57.3		10	1.0	0.38
67-66-3	Chloroform	54.2		5.0	1.0	0.15
74-87-3	Chloromethane	48.2		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	55.7		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2006MSD MSD | Lab Sample ID: 280-102516-1 MSD

Matrix: Water | Lab File ID: XSMP9477.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/24/2017 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.: 333745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	48.8		5.0	1.0	0.34
124-48-1	Dibromochloromethane	54.2		5.0	1.0	0.33
74-95-3	Dibromomethane	54.3		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	51.5		10	2.0	0.45
100-41-4	Ethylbenzene	58.5		5.0	1.0	0.30
98-82-8	Isopropylbenzene	57.8		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	53.8		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	54.1		5.0	2.0	0.40
75-09-2	Methylene Chloride	50.5		7.5	5.0	1.7
91-20-3	Naphthalene	52.6		5.0	2.0	0.85
104-51-8	n-Butylbenzene	56.5		5.0	2.0	0.23
103-65-1	N-Propylbenzene	57.2		5.0	2.0	0.30
95-47-6	o-Xylene	52.0		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	56.3		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	54.2		5.0	2.0	0.31
100-42-5	Styrene	56.1		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	55.9		5.0	2.0	0.31
127-18-4	Tetrachloroethene	52.5		5.0	1.0	0.28
108-88-3	Toluene	52.4		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	51.4		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	51.2		5.0	1.0	0.35
79-01-6	Trichloroethene	52.8		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	56.0		5.0	2.0	0.22
75-01-4	Vinyl chloride	48.4		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)	108		81-118
460-00-4	4-Bromofluorobenzene (Surr)	106		85-114
1868-53-7	Dibromofluoromethane (Surr)	103		80-119
2037-26-5	Toluene-d8 (Surr)	104		89-112

Report Date: 25-Oct-2017 21:52:33 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9477.D
Lims ID: 280-102516-A-1 MSD
Client ID: 6MW2006MSD
Sample Type: MSD
Inject. Date: 24-Oct-2017 23:44:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-012
Misc. Info.: 280-102516-A-1 MSD
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:52:32 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:52:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.878	1.877	0.001	98	294407	50.0	51.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.031	2.031	0.000	98	137448	50.0	52.3	
3 Chloromethane	50	2.091	2.090	0.001	99	355719	50.0	48.2	
4 Vinyl chloride	62	2.197	2.197	0.000	98	280615	50.0	48.4	
121 Butadiene	39	2.209	2.209	0.000	88	238643	50.0	49.3	
5 Bromomethane	94	2.576	2.576	0.000	93	108117	50.0	48.6	
6 Chloroethane	64	2.741	2.741	0.000	99	122389	50.0	57.3	
7 Trichlorofluoromethane	101	2.907	2.919	-0.012	99	334083	50.0	56.0	
122 Dichlorofluoromethane	67	3.002	3.002	0.000	97	307269	50.0	55.0	
8 Ethyl ether	74	3.345	3.345	0.000	95	112859	50.0	50.2	
9 1,1-Dichloroethene	96	3.605	3.593	0.012	94	252881	50.0	50.7	
11 Ethanol	45	3.605	3.605	0.000	27	66091	2000.0	2425.4	
10 Carbon disulfide	76	3.605	3.605	0.000	100	906628	50.0	54.0	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	95	190083	50.0	52.5	
13 Iodomethane	142	3.795	3.794	0.001	98	322017	50.0	51.3	
14 Acrolein	56	4.138	4.138	0.000	99	98932	250.0	263.2	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	93	288550	50.0	58.1	
16 Isopropyl alcohol	45	4.493	4.493	0.000	96	81953	500.0	639.2	
17 Methylene Chloride	84	4.516	4.516	0.000	99	232280	50.0	50.5	
18 Acetone	43	4.635	4.635	0.000	97	35171	50.0	52.6	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	97	264811	50.0	51.4	
20 Methyl acetate	74	4.871	4.871	0.000	97	33959	250.0	244.4	
21 Hexane	86	4.942	4.930	0.012	88	88058	50.0	56.0	
22 Methyl tert-butyl ether	73	5.013	5.013	0.000	1	389554	50.0	54.1	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	93	101018	500.0	513.2	
24 Acetonitrile	41	5.368	5.368	0.000	100	156374	500.0	620.7	
25 Isopropyl ether	45	5.640	5.640	0.000	98	780772	50.0	55.7	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	93	495219	50.0	61.0	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	96	486899	50.0	54.2	
S 26 1,2-Dichloroethene, Total	96				0			107.1	
29 Acrylonitrile	53	5.853	5.853	0.000	99	487961	500.0	615.4	

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	6.173	6.173	0.000	97	589470	50.0	53.9	
31 Vinyl acetate	43	6.197	6.197	0.001	97	375906	50.0	62.8	
32 cis-1,2-Dichloroethene	96	6.552	6.540	0.012	81	275599	50.0	55.7	
33 2,2-Dichloropropane	77	6.694	6.693	0.001	93	279643	50.0	61.8	
34 Cyclohexane	84	6.800	6.800	0.000	92	432106	50.0	53.8	
35 Chlorobromomethane	128	6.812	6.812	0.000	92	88509	50.0	49.9	
36 Chloroform	83	6.942	6.942	0.000	94	429972	50.0	54.2	
37 Carbon tetrachloride	117	7.096	7.096	0.000	97	323381	50.0	54.0	
38 Tetrahydrofuran	71	7.155	7.155	0.000	91	22424	100.0	96.3	
39 Ethyl acetate	45	7.167	7.167	0.000	96	35600	100.0	108.6	
40 1,1,1-Trichloroethane	97	7.191	7.190	0.001	98	391323	50.0	56.3	
$ 41 Dibromofluoromethane (Surr	113	7.191	7.190	0.001	92	201839	50.0	51.6	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	95	361893	50.0	55.1	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	100	55767	50.0	62.2	
124 Isooctane	57	7.534	7.534	0.000	96	1288671	50.0	61.2	
117 n-Heptane	43	7.688	7.687	0.001	76	582149	50.0	63.1	
44 Benzene	78	7.699	7.687	0.012	97	1054810	50.0	52.7	
45 Propionitrile	54	7.770	7.758	0.012	98	177650	500.0	600.2	
46 Methacrylonitrile	41	7.794	7.782	0.012	93	837522	500.0	610.0	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	94	204433	50.0	53.9	
48 Tert-amyl methyl ether	73	7.901	7.889	0.012	97	423110	50.0	57.3	
49 1,2-Dichloroethane	62	7.972	7.971	0.001	96	250337	50.0	56.1	
50 Isobutyl alcohol	42	8.090	8.090	0.000	92	81656	1250.0	1411.3	
* 51 Fluorobenzene	96	8.256	8.255	0.001	99	970808	50.0	50.0	
125 1,4-Difluorobenzene	114		8.427					ND	
52 Methylcyclohexane	55	8.433	8.433	0.000	93	475079	50.0	58.7	
53 Trichloroethene	95	8.469	8.457	0.012	97	279709	50.0	52.8	
A 126 C6-C12	1	8.921	(3.966-13.876)		0	89266532		NC	
54 n-Butanol	56	8.977	8.977	0.000	93	75318	1250.0	1251.6	
55 Dibromomethane	93	8.989	8.989	0.000	93	100962	50.0	54.3	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	95	252272	50.0	57.5	
123 Ethyl acrylate	55	9.214	9.214	0.000	98	164376	50.0	53.6	
57 Dichlorobromomethane	83	9.226	9.214	0.012	99	296237	50.0	56.6	
58 Methyl methacrylate	69	9.462	9.462	0.000	95	171424	100.0	99.6	
59 1,4-Dioxane	88	9.486	9.486	0.000	78	24463	1000.0	1084.9	
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63		9.971				ND	ND	
61 cis-1,3-Dichloropropene	75	10.019	10.019	0.000	94	313480	50.0	48.8	
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	908576	50.0	51.9	
63 Toluene	92	10.303	10.303	0.000	98	668122	50.0	52.4	
64 2-Nitropropane	43	10.610	10.610	0.000	98	59650	100.0	110.8	
65 Tetrachloroethene	164	10.764	10.764	0.000	95	203330	50.0	52.5	
66 4-Methyl-2-pentanone (MIBK	43	10.800	10.800	0.000	97	116205	50.0	53.4	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	95	264662	50.0	51.2	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	90	128244	50.0	52.3	
69 Ethyl methacrylate	69	11.036	11.036	0.000	88	170642	50.0	47.4	
70 Chlorodibromomethane	129	11.190	11.190	0.000	91	161924	50.0	54.2	
71 1,3-Dichloropropane	76	11.308	11.296	0.012	94	275892	50.0	55.5	
72 Ethylene Dibromide	107	11.439	11.438	0.001	97	134246	50.0	55.0	
S 73 1,3-Dichloropropene, Total	75				0			100.0	
118 n-Butyl acetate	43	11.628	11.628	0.000	98	191725	50.0	50.1	
74 2-Hexanone	43	11.723	11.722	0.001	97	82503	50.0	53.5	

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	11.983	11.983	0.000	89	607221	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	85	402015	50.0	47.6	
77 Chlorobenzene	112	11.995	11.995	0.000	97	668488	50.0	53.1	
78 Ethylbenzene	91	12.042	12.042	0.000	96	1388848	50.0	58.5	
79 1,1,1,2-Tetrachloroethane	131	12.078	12.066	0.012	94	197697	50.0	52.7	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	97	477242	50.0	53.8	
82 o-Xylene	106	12.610	12.610	0.000	98	426322	50.0	52.0	
83 Styrene	104	12.657	12.657	0.000	96	677677	50.0	56.1	
84 Bromoform	173	12.681	12.681	0.000	95	71911	50.0	54.3	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1196604	50.0	57.8	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	83	284247	50.0	52.8	
87 Bromobenzene	156	13.273	13.273	0.000	94	222817	50.0	55.4	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	1474101	50.0	57.2	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	95	145333	50.0	50.4	
90 2-Chlorotoluene	91	13.438	13.438	0.000	95	843356	50.0	57.3	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	93	915200	50.0	56.2	
92 1,2,3-Trichloropropane	110	13.498	13.497	0.001	82	41982	50.0	52.7	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	91	47612	50.0	54.3	
94 Cyclohexanone	55	13.533	13.533	0.000	69	32184	500.0	419.2	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	821084	50.0	55.2	
96 tert-Butylbenzene	119	13.770	13.770	0.000	93	784034	50.0	55.9	
81 Pentachloroethane	167		13.776					ND	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	98	910133	50.0	56.2	
98 sec-Butylbenzene	105	13.935	13.923	0.012	95	1250529	50.0	54.2	
99 4-Isopropyltoluene	119	14.054	14.054	0.000	97	991376	50.0	56.3	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	97	440072	50.0	52.2	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	250863	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	93	419882	50.0	52.0	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	99	811687	50.0	53.7	
120 Benzyl chloride	126	14.420	14.420	0.000	89	49941	50.0	58.4	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	259438	50.0	56.5	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	355902	50.0	51.8	
105 1,2-Dibromo-3-Chloropropan	157	15.261	15.261	0.000	84	16877	50.0	47.2	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	60	95747	50.0	57.8	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	312192	50.0	57.7	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	133196	50.0	53.1	
109 1,2,4-Trichlorobenzene	180	15.840	15.840	0.000	93	233606	50.0	60.2	
110 Naphthalene	128	16.113	16.112	0.001	97	361762	50.0	52.6	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	95	194568	50.0	59.8	
S 112 Xylenes, Total	106				0			105.8	
S 113 Trihalomethanes, Total	1				0			219.3	
127 2-Methylpentane	43		4.061					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

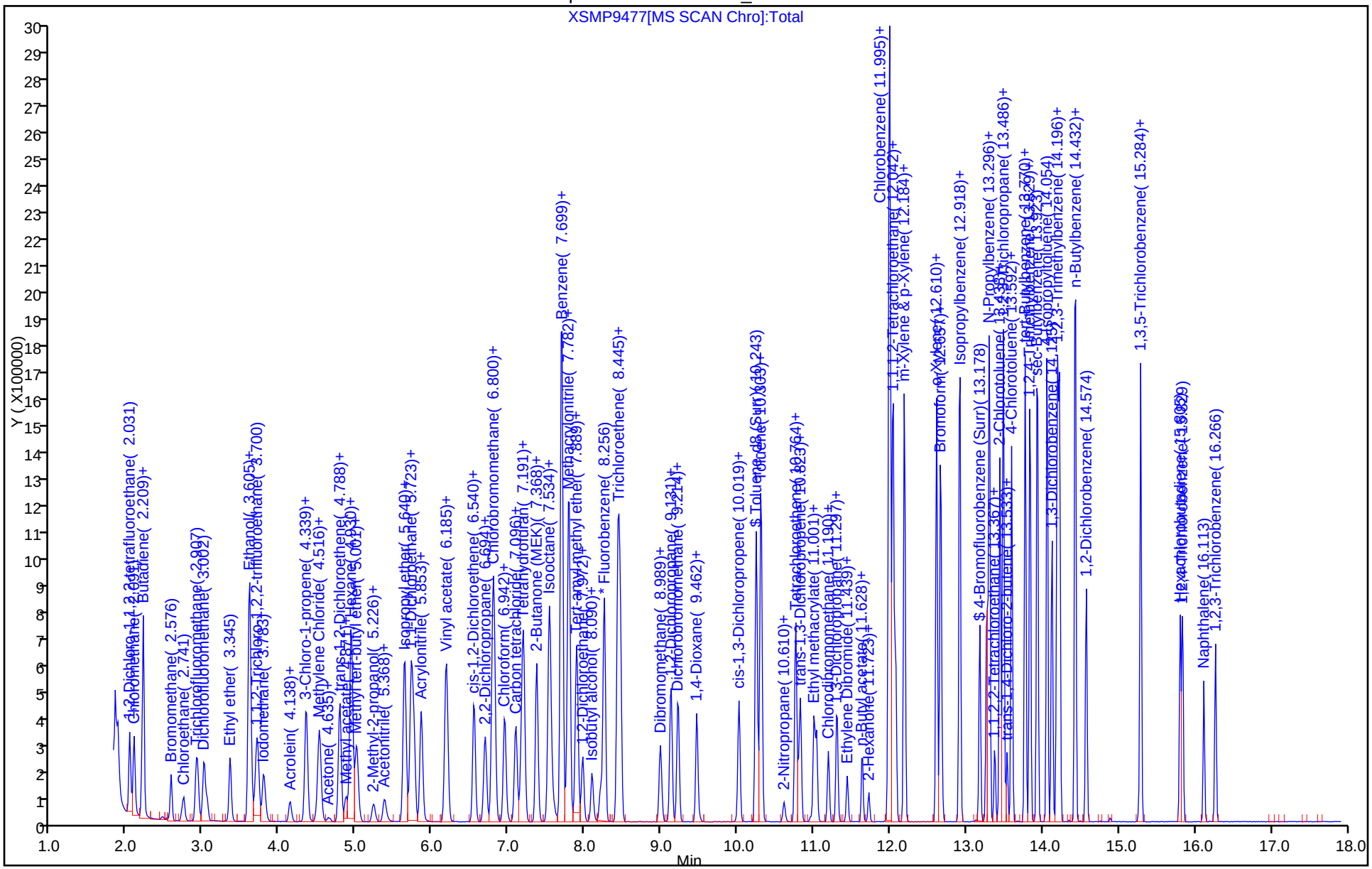
8260 NewWkMix_00243	Amount Added:	10.00	Units: uL	
I.S. Working_00154	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 25-Oct-2017 21:52:33 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9477.D

Injection Date:	24-Oct-2017 23:44:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-102516-A-1 MSD			Worklist Smp#:	12
Client ID:	6MW2006MSD				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\XSMP9477.D
Lims ID: 280-102516-A-1 MSD
Client ID: 6MW2006MSD
Sample Type: MSD
Inject. Date: 24-Oct-2017 23:44:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011757-012
Misc. Info.: 280-102516-A-1 MSD
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171024-11757.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 25-Oct-2017 21:52:32 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 25-Oct-2017 21:52:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	51.6	103.30
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	53.9	107.87
$ 62 Toluene-d8 (Surr)	50.0	51.9	103.72
$ 86 4-Bromofluorobenzene (Surr)	50.0	52.8	105.55

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2606 MSD | Lab Sample ID: 280-102516-7 MSD

Matrix: Water | Lab File ID: XSMP9516.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 21:12

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	51.7		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	56.2		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	50.1		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	52.0		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	54.7		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	54.8		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	55.7		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	57.1		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	53.1		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	53.2		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	44.9		10	2.0	1.2
106-93-4	1,2-Dibromoethane	51.8		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	57.4		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	58.0		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	54.0		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	52.8		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	62.1		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	61.7		20	5.0	0.39
95-49-8	2-Chlorotoluene	54.6		5.0	2.0	0.34
591-78-6	2-Hexanone	49.2		20	2.0	0.59
106-43-4	4-Chlorotoluene	53.4		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	51.0		20	2.0	0.33
67-64-1	Acetone	50.8		20	10	6.7
71-43-2	Benzene	52.7		5.0	1.0	0.25
108-86-1	Bromobenzene	52.7		5.0	2.0	0.33
74-97-5	Bromochloromethane	53.1		5.0	2.0	0.55
75-27-4	Bromodichloromethane	55.3		5.0	2.0	0.25
75-25-2	Bromoform	52.9		5.0	1.0	0.37
74-83-9	Bromomethane	54.9		10	2.0	0.40
75-15-0	Carbon disulfide	57.2		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	54.0		5.0	1.0	0.36
108-90-7	Chlorobenzene	51.2		5.0	1.0	0.38
75-00-3	Chloroethane	64.4		10	1.0	0.38
67-66-3	Chloroform	54.0		5.0	1.0	0.15
74-87-3	Chloromethane	51.7		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	58.0		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-102516-1

SDG No.:

Client Sample ID: 6MW2606 MSD | Lab Sample ID: 280-102516-7 MSD

Matrix: Water | Lab File ID: XSMP9516.D

Analysis Method: 8260C DOD | Date Collected: 10/17/2017 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/25/2017 21:12

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 333931 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	49.0		5.0	1.0	0.34
124-48-1	Dibromochloromethane	53.2		5.0	1.0	0.33
74-95-3	Dibromomethane	53.6		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	58.1		10	2.0	0.45
100-41-4	Ethylbenzene	54.9		5.0	1.0	0.30
98-82-8	Isopropylbenzene	55.1		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	51.4		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	57.3		5.0	2.0	0.40
75-09-2	Methylene Chloride	54.4		7.5	5.0	1.7
91-20-3	Naphthalene	51.3		5.0	2.0	0.85
104-51-8	n-Butylbenzene	54.4		5.0	2.0	0.23
103-65-1	N-Propylbenzene	55.0		5.0	2.0	0.30
95-47-6	o-Xylene	50.2		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	55.3		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	52.4		5.0	2.0	0.31
100-42-5	Styrene	53.4		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	53.8		5.0	2.0	0.31
127-18-4	Tetrachloroethene	51.1		5.0	1.0	0.28
108-88-3	Toluene	51.8		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	54.6		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	50.4		5.0	1.0	0.35
79-01-6	Trichloroethene	52.2		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	60.5		5.0	2.0	0.22
75-01-4	Vinyl chloride	54.0		5.0	1.0	0.43
1330-20-7	Xylenes (total)	102		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)	99		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	99		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9516.D
Lims ID: 280-102516-B-7 MSD
Client ID:
Sample Type: MSD
Inject. Date: 25-Oct-2017 21:12:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-014
Misc. Info.: 280-102516-B-7 MSD
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:30:22 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:30:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.877	1.877	0.000	99	330811	50.0	58.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.031	2.031	0.000	99	161621	50.0	61.8	
3 Chloromethane	50	2.090	2.090	0.000	99	380167	50.0	51.7	
4 Vinyl chloride	62	2.197	2.197	0.000	98	312215	50.0	54.0	
121 Butadiene	39	2.209	2.209	0.000	89	256600	50.0	53.2	
5 Bromomethane	94	2.576	2.576	0.000	91	121678	50.0	54.9	
6 Chloroethane	64	2.741	2.741	0.000	98	136914	50.0	64.4	
7 Trichlorofluoromethane	101	2.919	2.919	0.000	98	359330	50.0	60.5	
122 Dichlorofluoromethane	67	3.013	3.013	0.000	98	356581	50.0	64.1	
8 Ethyl ether	74	3.357	3.345	0.012	95	126193	50.0	56.4	
9 1,1-Dichloroethene	96	3.605	3.605	0.000	94	272196	50.0	54.8	
11 Ethanol	45	3.593	3.605	-0.012	28	64956	2000.0	2393.9	
10 Carbon disulfide	76	3.605	3.605	0.000	100	956663	50.0	57.2	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.712	-0.012	95	197452	50.0	54.7	
13 Iodomethane	142	3.794	3.794	0.000	98	348277	50.0	55.7	
14 Acrolein	56	4.138	4.138	0.000	99	116462	250.0	308.5	
15 3-Chloro-1-propene	39	4.351	4.351	0.000	93	299405	50.0	60.6	
16 Isopropyl alcohol	45	4.493	4.493	0.000	96	73511	500.0	578.3	
17 Methylene Chloride	84	4.516	4.528	-0.012	99	249154	50.0	54.4	
18 Acetone	43	4.635	4.646	-0.011	99	33854	50.0	50.8	
19 trans-1,2-Dichloroethene	96	4.788	4.788	0.000	97	280448	50.0	54.6	
20 Methyl acetate	74	4.859	4.871	-0.012	97	38405	250.0	276.2	
21 Hexane	86	4.942	4.942	0.000	88	90583	50.0	57.8	
22 Methyl tert-butyl ether	73	5.001	5.013	-0.012	90	410969	50.0	57.3	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	93	96392	500.0	492.9	
24 Acetonitrile	41	5.368	5.380	-0.012	100	157480	500.0	627.4	
25 Isopropyl ether	45	5.640	5.640	0.000	95	791193	50.0	56.7	
27 2-Chloro-1,3-butadiene	53	5.723	5.723	0.000	93	492523	50.0	60.9	
28 1,1-Dichloroethane	63	5.759	5.759	0.000	96	488811	50.0	54.7	
S 26 1,2-Dichloroethene, Total	96				0			112.7	
29 Acrylonitrile	53	5.853	5.853	0.000	99	501312	500.0	634.7	

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	6.173	6.173	0.000	97	588437	50.0	54.0	
31 Vinyl acetate	43	6.196	6.196	0.000	97	384197	50.0	64.4	
32 cis-1,2-Dichloroethene	96	6.551	6.551	0.000	81	285919	50.0	58.0	
33 2,2-Dichloropropane	77	6.693	6.693	0.000	93	279695	50.0	62.1	
34 Cyclohexane	84	6.800	6.800	0.000	92	443691	50.0	55.4	
35 Chlorobromomethane	128	6.812	6.812	0.000	93	93786	50.0	53.1	
36 Chloroform	83	6.942	6.942	0.000	94	427405	50.0	54.0	
37 Carbon tetrachloride	117	7.096	7.096	0.000	98	322109	50.0	54.0	
38 Tetrahydrofuran	71	7.155	7.155	0.000	89	21527	100.0	93.1	
39 Ethyl acetate	45	7.167	7.167	0.000	98	36863	100.0	112.8	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.190	0.000	92	195009	50.0	50.1	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	97	388947	50.0	56.2	
42 1,1-Dichloropropene	75	7.368	7.368	0.000	96	364606	50.0	55.7	
43 2-Butanone (MEK)	43	7.392	7.392	0.000	99	55156	50.0	61.7	
124 Isooctane	57	7.534	7.534	0.000	96	1305065	50.0	62.2	
117 n-Heptane	43	7.687	7.687	0.000	78	594982	50.0	64.7	
44 Benzene	78	7.699	7.699	0.000	97	1051967	50.0	52.7	
45 Propionitrile	54	7.770	7.770	0.000	93	179952	500.0	610.3	
46 Methacrylonitrile	41	7.794	7.794	0.000	93	842175	500.0	615.7	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	94	201443	50.0	53.3	
48 Tert-amyl methyl ether	73	7.900	7.900	0.000	94	413142	50.0	56.2	
49 1,2-Dichloroethane	62	7.971	7.971	0.000	96	255026	50.0	57.4	
50 Isobutyl alcohol	42	8.090	8.090	0.000	92	75439	1250.0	1314.3	
* 51 Fluorobenzene	96	8.255	8.255	0.000	99	967128	50.0	50.0	
125 1,4-Difluorobenzene	114		8.427					ND	
52 Methylcyclohexane	55	8.433	8.433	0.000	93	467057	50.0	58.0	
53 Trichloroethene	95	8.468	8.468	0.000	97	275844	50.0	52.2	
A 126 C6-C12	1	8.921	(3.966-13.876)		0	88257340		NC	
54 n-Butanol	56	8.977	8.977	0.000	94	70881	1250.0	1192.2	
55 Dibromomethane	93	8.989	8.989	0.000	93	99212	50.0	53.6	
56 1,2-Dichloropropane	63	9.131	9.131	0.000	94	253504	50.0	58.0	
123 Ethyl acrylate	55	9.214	9.214	0.000	98	162362	50.0	53.2	
57 Dichlorobromomethane	83	9.226	9.226	0.000	99	288156	50.0	55.3	
58 Methyl methacrylate	69	9.462	9.462	0.000	95	173507	100.0	101.1	
59 1,4-Dioxane	88	9.486	9.486	0.000	77	21942	1000.0	984.1	
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63		9.971				ND	ND	
61 cis-1,3-Dichloropropene	75	10.019	10.019	-0.001	94	313832	50.0	49.0	
$ 62 Toluene-d8 (Surr)	98	10.243	10.243	0.000	94	867576	50.0	49.7	
63 Toluene	92	10.302	10.303	0.000	98	657056	50.0	51.8	
64 2-Nitropropane	43	10.610	10.610	0.000	98	57023	100.0	106.8	
65 Tetrachloroethene	164	10.764	10.764	0.000	95	196946	50.0	51.1	
66 4-Methyl-2-pentanone (MIBK	43	10.799	10.799	0.000	98	110316	50.0	51.0	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	94	259188	50.0	50.4	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	91	127115	50.0	52.0	
69 Ethyl methacrylate	69	11.036	11.036	0.000	87	162618	50.0	45.5	
70 Chlorodibromomethane	129	11.190	11.190	0.000	91	158047	50.0	53.2	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	94	261601	50.0	52.8	
72 Ethylene Dibromide	107	11.438	11.438	0.000	97	125839	50.0	51.8	
S 73 1,3-Dichloropropene, Total	75				0			99.4	
118 n-Butyl acetate	43	11.628	11.628	0.000	98	186571	50.0	49.1	
74 2-Hexanone	43	11.722	11.722	0.000	97	75038	50.0	49.2	

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	11.983	11.983	0.000	89	604894	50.0	50.0	
75 1-Chlorohexane	91	11.995	11.995	0.000	83	384438	50.0	45.7	
77 Chlorobenzene	112	11.995	11.995	0.000	96	642809	50.0	51.2	
78 Ethylbenzene	91	12.042	12.042	0.000	98	1297956	50.0	54.9	
79 1,1,1,2-Tetrachloroethane	131	12.066	12.066	0.000	94	193320	50.0	51.7	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	97	454388	50.0	51.4	
82 o-Xylene	106	12.610	12.610	0.000	98	409339	50.0	50.2	
83 Styrene	104	12.657	12.657	0.000	96	641938	50.0	53.4	
84 Bromoform	173	12.681	12.681	0.000	95	70822	50.0	52.9	
85 Isopropylbenzene	105	12.918	12.918	0.000	96	1151959	50.0	55.1	
$ 86 4-Bromofluorobenzene (Surr	95	13.178	13.178	0.000	84	270420	50.0	49.7	
87 Bromobenzene	156	13.273	13.273	0.000	96	214443	50.0	52.7	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	1433836	50.0	55.0	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	95	145950	50.0	50.1	
90 2-Chlorotoluene	91	13.438	13.438	0.000	95	811492	50.0	54.6	
91 1,3,5-Trimethylbenzene	105	13.486	13.486	0.000	94	888851	50.0	54.0	
92 1,2,3-Trichloropropane	110	13.497	13.497	0.000	83	42784	50.0	53.1	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.533	0.000	89	46436	50.0	52.5	
94 Cyclohexanone	55	13.533	13.533	0.000	68	32053	500.0	413.7	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	802788	50.0	53.4	
96 tert-Butylbenzene	119	13.770	13.770	0.000	93	762605	50.0	53.8	
81 Pentachloroethane	167		13.776					ND	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	98	870752	50.0	53.2	
98 sec-Butylbenzene	105	13.923	13.923	0.000	95	1220567	50.0	52.4	
99 4-Isopropyltoluene	119	14.054	14.054	0.000	97	985007	50.0	55.3	
100 1,3-Dichlorobenzene	146	14.125	14.125	0.000	98	427228	50.0	50.2	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	253504	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.207	14.207	0.000	92	413275	50.0	50.7	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	99	796391	50.0	52.1	
120 Benzyl chloride	126	14.420	14.420	0.000	90	47021	50.0	54.4	
103 n-Butylbenzene	134	14.432	14.432	0.000	97	252392	50.0	54.4	
104 1,2-Dichlorobenzene	146	14.574	14.574	0.000	96	353042	50.0	50.8	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	84	16181	50.0	44.9	
106 n-Nonyl Aldehyde	57	15.284	15.284	0.000	58	91812	50.0	55.0	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	302908	50.0	55.4	
108 Hexachlorobutadiene	225	15.805	15.805	0.000	96	129234	50.0	51.0	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	94	227837	50.0	58.1	
110 Naphthalene	128	16.112	16.112	0.000	97	356112	50.0	51.3	
111 1,2,3-Trichlorobenzene	180	16.266	16.266	0.000	94	187722	50.0	57.1	
S 112 Xylenes, Total	106				0			101.6	
S 113 Trihalomethanes, Total	1				0			215.4	
127 2-Methylpentane	43		4.061					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Reagents:

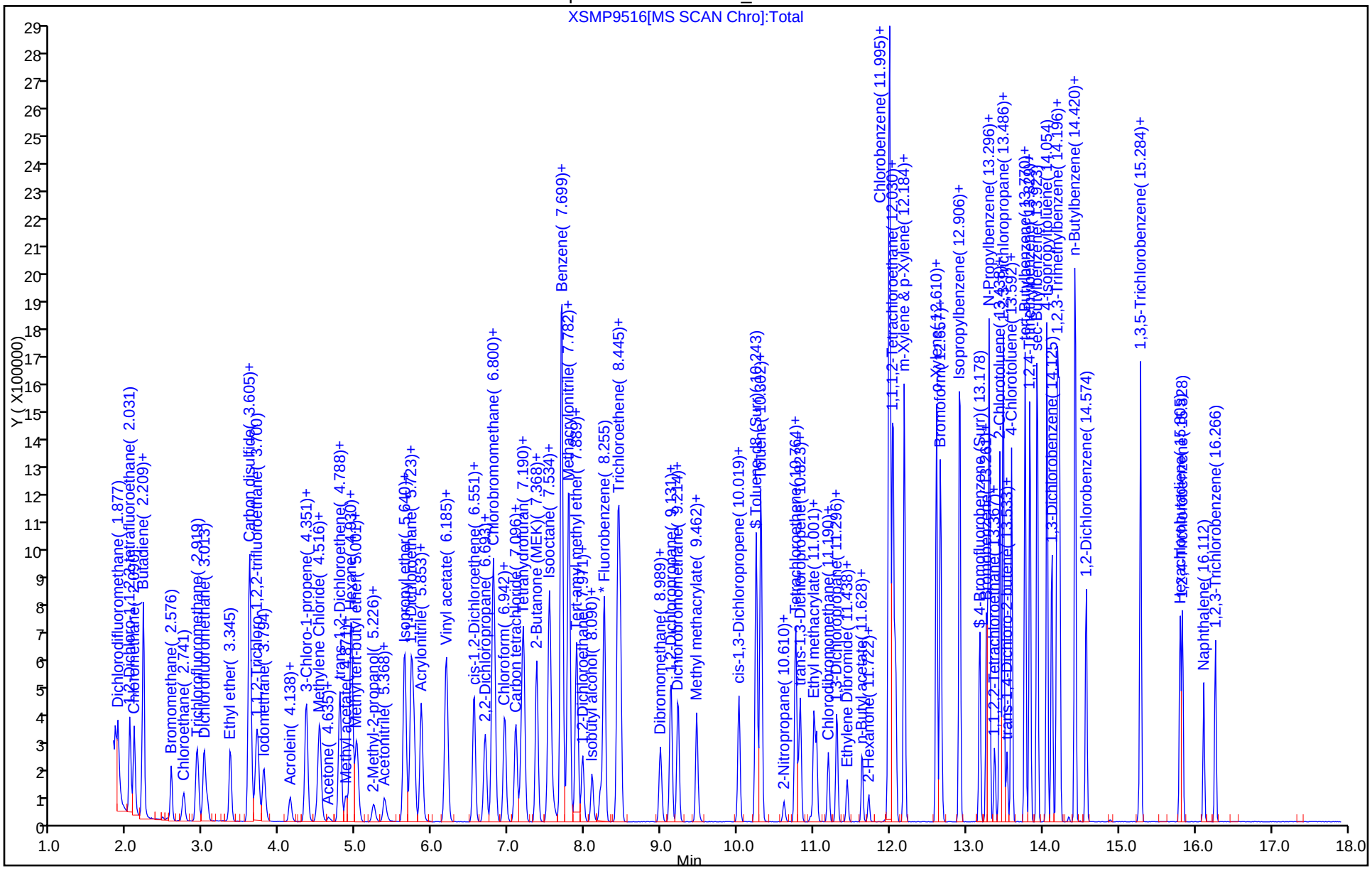
8260 NewWkMix_00243	Amount Added:	10.00	Units: uL	
I.S. Working_00154	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00080	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 31-Oct-2017 16:30:23 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\XSMP9516.D

Injection Date:	25-Oct-2017 21:12:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-102516-B-7 MSD			Worklist Smp#:	14
Client ID:					
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\20171025-11764.b\XSMP9516.D
Lims ID: 280-102516-B-7 MSD
Client ID:
Sample Type: MSD
Inject. Date: 25-Oct-2017 21:12:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0011764-014
Misc. Info.: 280-102516-B-7 MSD
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20171025-11764.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 31-Oct-2017 16:30:22 Calib Date: 15-Sep-2017 01:49:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20170914-11418.b\XICL8781.D

Column 1 : Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: hannj Date: 31-Oct-2017 16:30:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.1	100.18
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	53.3	106.70
$ 62 Toluene-d8 (Surr)	50.0	49.7	99.42
$ 86 4-Bromofluorobenzene (Surr)	50.0	49.7	99.37

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Instrument ID: VMSX Start Date: 09/14/2017 22:23

Analysis Batch Number: 327349 End Date: 09/15/2017 03:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-327349/2		09/14/2017 22:23	1	XBFB8773.D	RTXVMS30 0.25(mm)
IC 160-327349/3		09/14/2017 22:55	1	XICL8774.D	RTXVMS30 0.25(mm)
IC 160-327349/4		09/14/2017 23:20	1	XICL8775.D	RTXVMS30 0.25(mm)
IC 160-327349/5		09/14/2017 23:45	1	XICL8776.D	RTXVMS30 0.25(mm)
IC 160-327349/6		09/15/2017 00:10	1	XICL8777.D	RTXVMS30 0.25(mm)
IC 160-327349/7		09/15/2017 00:35	1	XICL8778.D	RTXVMS30 0.25(mm)
ICIS 160-327349/8		09/15/2017 01:00	1	XICL8779.D	RTXVMS30 0.25(mm)
IC 160-327349/9		09/15/2017 01:25	1	XICL8780.D	RTXVMS30 0.25(mm)
IC 160-327349/10		09/15/2017 01:49	1	XICL8781.D	RTXVMS30 0.25(mm)
ICV 160-327349/13		09/15/2017 03:04	1	XICV8784.D	RTXVMS30 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Instrument ID: VMSX Start Date: 10/24/2017 19:22

Analysis Batch Number: 333745 End Date: 10/25/2017 01:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-333745/2		10/24/2017 19:22	1	XBFB9467.D	RTXVMS30 0.25(mm)
CCV 160-333745/3		10/24/2017 19:47	1	XCCV9468.D	RTXVMS30 0.25(mm)
LCS 160-333745/4		10/24/2017 20:26	1	XLCS9469.D	RTXVMS30 0.25(mm)
LCSD 160-333745/5		10/24/2017 20:51	1	XLCS9470.D	RTXVMS30 0.25(mm)
ZZZZZ		10/24/2017 21:16	1		RTXVMS30 0.25(mm)
MB 160-333745/7		10/24/2017 21:41	1	XBLK9472.D	RTXVMS30 0.25(mm)
280-102516-8		10/24/2017 22:06	1	XSMP9473.D	RTXVMS30 0.25(mm)
280-102516-9		10/24/2017 22:30	1	XSMP9474.D	RTXVMS30 0.25(mm)
280-102516-1		10/24/2017 22:55	1	XSMP9475.D	RTXVMS30 0.25(mm)
280-102516-1 MS		10/24/2017 23:19	1	XSMP9476.D	RTXVMS30 0.25(mm)
280-102516-1 MSD		10/24/2017 23:44	1	XSMP9477.D	RTXVMS30 0.25(mm)
280-102516-2		10/25/2017 00:33	1	XSMP9479.D	RTXVMS30 0.25(mm)
280-102516-3		10/25/2017 00:58	1	XSMP9480.D	RTXVMS30 0.25(mm)
CCVC 160-333745/16		10/25/2017 01:26	1	XCCV9481.D	RTXVMS30 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. Louis Job No.: 280-102516-1

SDG No.:

Instrument ID: VMSX Start Date: 10/25/2017 15:08

Analysis Batch Number: 333931 End Date: 10/25/2017 21:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-333931/2		10/25/2017 15:08	1	XBFB9504.D	RTXVMS30 0.25(mm)
CCV 160-333931/3		10/25/2017 15:35	1	XCCV9505.D	RTXVMS30 0.25(mm)
LCS 160-333931/4		10/25/2017 16:11	1	XLCS9506.D	RTXVMS30 0.25(mm)
LCSD 160-333931/5		10/25/2017 16:36	1	XLCS9507.D	RTXVMS30 0.25(mm)
ZZZZZ		10/25/2017 17:01	1		RTXVMS30 0.25(mm)
MB 160-333931/7		10/25/2017 17:26	1	XBLK9509.D	RTXVMS30 0.25(mm)
280-102516-4		10/25/2017 17:52	1	XSMP9510.D	RTXVMS30 0.25(mm)
280-102516-5		10/25/2017 18:26	1	XSMP9511.D	RTXVMS30 0.25(mm)
ZZZZZ		10/25/2017 18:50	1		RTXVMS30 0.25(mm)
280-102516-7		10/25/2017 19:30	1	XSMP9513.D	RTXVMS30 0.25(mm)
280-102516-6 RA		10/25/2017 20:22	1	XSMP9514.D	RTXVMS30 0.25(mm)
280-102516-7 MS		10/25/2017 20:47	1	XSMP9515.D	RTXVMS30 0.25(mm)
280-102516-7 MSD		10/25/2017 21:12	1	XSMP9516.D	RTXVMS30 0.25(mm)
CCVC 160-333931/15		10/25/2017 21:37	1	XCCV9517.D	RTXVMS30 0.25(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-102516-1

SDG No.:

Project: Stratton ANGB, NY (Schenectady)

Client Sample ID	Lab Sample ID
6MW2006	280-102516-1
6MW2206	280-102516-3
6MW2306	280-102516-4
6MW2406	280-102516-5
6MW2506	280-102516-6
6MW2606	280-102516-7

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2006 Lab Sample ID: 280-102516-1

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG ID.:

Matrix: Water Date Sampled: 10/17/2017 10:00

Reporting Basis: WET Date Received: 10/18/2017 08:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	3.5	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2206 Lab Sample ID: 280-102516-3

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG ID.:

Matrix: Water Date Sampled: 10/17/2017 11:10

Reporting Basis: WET Date Received: 10/18/2017 08:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	50	2.0	1.0	0.31	mg/L			2	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2306 Lab Sample ID: 280-102516-4

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG ID.:

Matrix: Water Date Sampled: 10/17/2017 11:55

Reporting Basis: WET Date Received: 10/18/2017 08:30

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: 6MW2406 Lab Sample ID: 280-102516-5

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG ID.:

Matrix: Water Date Sampled: 10/17/2017 12:40

Reporting Basis: WET Date Received: 10/18/2017 08:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	6.9	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2506 Lab Sample ID: 280-102516-6

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG ID.:

Matrix: Water Date Sampled: 10/17/2017 13:40

Reporting Basis: WET Date Received: 10/18/2017 08:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	4.1	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2606 Lab Sample ID: 280-102516-7

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG ID.:

Matrix: Water Date Sampled: 10/17/2017 14:25

Reporting Basis: WET Date Received: 10/18/2017 08:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	4.1	1.0	0.50	0.16	mg/L			1	9060A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG No.:

Analyst: CCJ Batch Start Date: 10/25/2017

Reporting Units: mg/L Analytical Batch No.: 392810

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	13:34	Total Organic Carbon - Quad	20.2	20.0	101	90-110		TOC ICV Std_00033
2	ICB	13:49	Total Organic Carbon - Quad	0.244				J	
16	CCV	17:25	Total Organic Carbon - Quad	24.4	25.0	97	90-110		TOC LCS Std_00038
17	CCB	17:40	Total Organic Carbon - Quad	0.209				J	
28	CCV	20:28	Total Organic Carbon - Quad	23.4	25.0	94	90-110		TOC LCS Std_00038
29	CCB	20:47	Total Organic Carbon - Quad	0.197				J	

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG No.:

Analyst: CCJ Batch Start Date: 10/26/2017

Reporting Units: mg/L Analytical Batch No.: 393018

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	ICV	17:14	Total Organic Carbon - Quad	20.4	20.0	102	90-110		TOC ICV Std_00033
3	ICB	17:32	Total Organic Carbon - Quad	0.50				U	
16	CCV	21:10	Total Organic Carbon - Quad	24.1	25.0	97	90-110		TOC LCS Std_00038
17	CCB	21:25	Total Organic Carbon - Quad	0.50				U	
28	CCV	00:30	Total Organic Carbon - Quad	23.4	25.0	94	90-110		TOC LCS Std_00038
29	CCB	00:45	Total Organic Carbon - Quad	0.50				U	

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG No.:

Analyst: CCJ Batch Start Date: 10/26/2017

Reporting Units: mg/L Analytical Batch No.: 393019

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
2	ICV	17:14	Total Organic Carbon - Quad	20.4	20.0	102	90-110		TOC ICV Std_00033
3	ICB	17:32	Total Organic Carbon - Quad	0.50				U	
16	CCV	21:10	Total Organic Carbon - Quad	24.1	25.0	97	90-110		TOC LCS Std_00038
17	CCB	21:25	Total Organic Carbon - Quad	0.50				U	
28	CCV	00:30	Total Organic Carbon - Quad	23.4	25.0	94	90-110		TOC LCS Std_00038
29	CCB	00:45	Total Organic Carbon - Quad	0.50				U	

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 392810 Date: 10/25/2017 14:35							
9060A	MB 280-392810/5	Total Organic Carbon - Quad	0.218	J	mg/L	1.0	1
Batch ID: 393018 Date: 10/26/2017 18:05							
9060A	MB 280-393018/5	Total Organic Carbon - Quad	0.50	U	mg/L	1.0	1
Batch ID: 393019 Date: 10/26/2017 18:05							
9060A	MB 280-393019/5	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.: 280-102516-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 392810	Date: 10/25/2017 14:04										
						LCS Source: TOC LCS Std_00038					
9060A	LCS 280-392810/3	Total Organic Carbon - Quad	24.5		mg/L	25.0	98	88-112	1	15	
Batch ID: 393018	Date: 10/26/2017 17:49										
						LCS Source: TOC LCS Std_00038					
9060A	LCS 280-393018/4	Total Organic Carbon - Quad	25.0		mg/L	25.0	100	88-112			
Batch ID: 393019	Date: 10/26/2017 17:49										
						LCS Source: TOC LCS Std_00038					
9060A	LCS 280-393019/4	Total Organic Carbon - Quad	25.0		mg/L	25.0	100	88-112			

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.: 280-102516-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 392810	Date: 10/25/2017 14:19										
						LCSD Source: TOC LCS Std_00038					
9060A	LCSD 280-392810/4	Total Organic Carbon - Quad	24.8		mg/L	25.0	99	88-112	1	15	

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: 280-102516-1

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: 280-102516-1

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

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-102516-1

SDG Number:

Matrix: Water Instrument ID: WC_SHI3

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: 280-102516-1

SDG Number:

Matrix: Water Instrument ID: WC_SHI3

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.: 280-102516-1

SDG No.:

Instrument ID: WC_SHI2 Analysis Method: 9060A

Start Date: 10/25/2017 13:34 End Date: 10/26/2017 01:16

Lab Sample Id	D/F	Type	Time	Analytes																								
				TOCQ																								
ICV 280-392810/1	1		13:34	X																								
ICB 280-392810/2	1		13:49	X																								
LCS 280-392810/3	1	T	14:04	X																								
LCSD 280-392810/4	1	T	14:19	X																								
MB 280-392810/5	1	T	14:35	X																								
ZZZZZZ			14:49																									
ZZZZZZ			15:04																									
ZZZZZZ			15:19																									
ZZZZZZ			15:35																									
ZZZZZZ			15:50																									
ZZZZZZ			16:05																									
ZZZZZZ			16:19																									
ZZZZZZ			16:36																									
280-102516-1	1	T	16:52	X																								
ZZZZZZ			17:07																									
CCV 280-392810/16	1		17:25	X																								
CCB 280-392810/17	1		17:40	X																								
280-102516-4	1	T	17:55	X																								
280-102516-5	1	T	18:13	X																								
280-102516-6	1	T	18:28	X																								
280-102516-7	1	T	18:43	X																								
ZZZZZZ			18:59																									
ZZZZZZ			19:14																									
ZZZZZZ			19:29																									
ZZZZZZ			19:44																									
ZZZZZZ			19:59																									
ZZZZZZ			20:13																									
CCV 280-392810/28	1		20:28	X																								
CCB 280-392810/29	1		20:47	X																								
ZZZZZZ			21:01																									
ZZZZZZ			21:16																									
ZZZZZZ			21:31																									
ZZZZZZ			21:45																									
ZZZZZZ			22:00																									
ZZZZZZ			22:15																									
ZZZZZZ			22:30																									
ZZZZZZ			22:45																									
ZZZZZZ			23:00																									
ZZZZZZ			23:14																									
CCV 280-392810/40			23:31																									

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG No.:

Instrument ID: WC_SHI2 Analysis Method: 9060A

Start Date: 10/25/2017 13:34 End Date: 10/26/2017 01:16

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
CCB 280-392810/41			23:46																										
ZZZZZZ			00:01																										
ZZZZZZ			00:16																										
ZZZZZZ			00:30																										
ZZZZZZ			00:45																										
ZZZZZZ			01:00																										
ZZZZZZ			01:16																										

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 10/26/2017 16:02 End Date: 10/27/2017 11:42

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
ZZZZZZ			16:02																										
ICV 280-393018/2	1		17:14	X																									
ICB 280-393018/3	1		17:32	X																									
LCS 280-393018/4	1	T	17:49	X																									
MB 280-393018/5	1	T	18:05	X																									
ZZZZZZ			18:19																										
ZZZZZZ			18:34																										
ZZZZZZ			18:51																										
ZZZZZZ			19:08																										
ZZZZZZ			19:24																										
ZZZZZZ			19:43																										
ZZZZZZ			19:58																										
ZZZZZZ			20:15																										
ZZZZZZ			20:32																										
ZZZZZZ			20:50																										
CCV 280-393018/16	1		21:10	X																									
CCB 280-393018/17	1		21:25	X																									
ZZZZZZ			21:41																										
ZZZZZZ			21:58																										
ZZZZZZ			22:15																										
ZZZZZZ			22:30																										
ZZZZZZ			22:49																										
ZZZZZZ			23:06																										
280-102516-3	2	T	23:23	X																									
ZZZZZZ			23:40																										
ZZZZZZ			23:59																										
ZZZZZZ			00:16																										
CCV 280-393018/28	1		00:30	X																									
CCB 280-393018/29	1		00:45	X																									
ZZZZZZ			01:02																										
ZZZZZZ			01:21																										
ZZZZZZ			01:38																										
ZZZZZZ			01:57																										
ZZZZZZ			02:13																										
ZZZZZZ			02:30																										
ZZZZZZ			02:45																										
ZZZZZZ			03:00																										
ZZZZZZ			03:19																										
ZZZZZZ			03:35																										
CCV 280-393018/40			03:50																										

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 10/26/2017 16:02 End Date: 10/27/2017 11:42

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
CCB 280-393018/41			04:07																										
ZZZZZZ			04:24																										
ZZZZZZ			04:41																										
ZZZZZZ			05:00																										
ZZZZZZ			05:16																										
ZZZZZZ			05:35																										
ZZZZZZ			05:52																										
ZZZZZZ			06:09																										
ZZZZZZ			06:25																										
ZZZZZZ			06:42																										
ZZZZZZ			06:59																										
CCV 280-393018/52			07:14																										
CCB 280-393018/53			07:31																										
ZZZZZZ			07:46																										
ZZZZZZ			08:00																										
ZZZZZZ			08:15																										
ZZZZZZ			08:30																										
ZZZZZZ			08:45																										
ZZZZZZ			09:02																										
ZZZZZZ			09:18																										
ZZZZZZ			09:33																										
ZZZZZZ			09:52																										
ZZZZZZ			10:07																										
CCV 280-393018/64			10:22																										
CCB 280-393018/65			10:41																										
ZZZZZZ			10:55																										
ZZZZZZ			11:13																										
CCV 280-393018/68			11:28																										
CCB 280-393018/69			11:42																										

Prep Types:
T = Total/NA

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 10/26/2017 16:02 End Date: 10/27/2017 11:42

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
ZZZZZZ			16:02																										
ICV 280-393019/2	1		17:14	X																									
ICB 280-393019/3	1		17:32	X																									
LCS 280-393019/4	1	T	17:49	X																									
MB 280-393019/5	1	T	18:05	X																									
ZZZZZZ			18:19																										
ZZZZZZ			18:34																										
ZZZZZZ			18:51																										
ZZZZZZ			19:08																										
ZZZZZZ			19:24																										
ZZZZZZ			19:43																										
ZZZZZZ			19:58																										
ZZZZZZ			20:15																										
ZZZZZZ			20:32																										
ZZZZZZ			20:50																										
CCV 280-393019/16	1		21:10	X																									
CCB 280-393019/17	1		21:25	X																									
ZZZZZZ			21:41																										
ZZZZZZ			21:58																										
ZZZZZZ			22:15																										
ZZZZZZ			22:30																										
ZZZZZZ			22:49																										
ZZZZZZ			23:06																										
ZZZZZZ			23:23																										
ZZZZZZ			23:40																										
ZZZZZZ			23:59																										
ZZZZZZ			00:16																										
CCV 280-393019/28	1		00:30	X																									
CCB 280-393019/29	1		00:45	X																									
ZZZZZZ			01:02																										
ZZZZZZ			01:21																										
ZZZZZZ			01:38																										
ZZZZZZ			01:57																										
ZZZZZZ			02:13																										
ZZZZZZ			02:30																										
ZZZZZZ			02:45																										
ZZZZZZ			03:00																										
ZZZZZZ			03:19																										
ZZZZZZ			03:35																										
CCV 280-393019/40			03:50																										

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG No.:

Instrument ID: WC_SHI3 Analysis Method: 9060A

Start Date: 10/26/2017 16:02 End Date: 10/27/2017 11:42

Lab Sample Id	D/F	Type	Time	Analytes																									
				TOCQ																									
CCB 280-393019/41			04:07																										
ZZZZZZ			04:24																										
ZZZZZZ			04:41																										
ZZZZZZ			05:00																										
ZZZZZZ			05:16																										
ZZZZZZ			05:35																										
ZZZZZZ			05:52																										
ZZZZZZ			06:09																										
ZZZZZZ			06:25																										
ZZZZZZ			06:42																										
ZZZZZZ			06:59																										
CCV 280-393019/52			07:14																										
CCB 280-393019/53			07:31																										
ZZZZZZ			07:46																										
ZZZZZZ			08:00																										
ZZZZZZ			08:15																										
ZZZZZZ			08:30																										
ZZZZZZ			08:45																										
ZZZZZZ			09:02																										
ZZZZZZ			09:18																										
ZZZZZZ			09:33																										
ZZZZZZ			09:52																										
ZZZZZZ			10:07																										
CCV 280-393019/64			10:22																										
CCB 280-393019/65			10:41																										
ZZZZZZ			10:55																										
ZZZZZZ			11:13																										
CCV 280-393019/68			11:28																										
CCB 280-393019/69			11:42																										

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG No.:

Batch Number: 392810 Batch Start Date: 10/25/17 13:34 Batch Analyst: Jewell, Connie C

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TOC ICV Std 00033	TOC LCS Std 00038			
ICV 280-392810/1		9060A		50 mL	1 mL				
LCS 280-392810/3		9060A		200 mL		5 mL			
LCSD 280-392810/4		9060A		200 mL		5 mL			
CCV 280-392810/16		9060A		200 mL		5 mL			
CCV 280-392810/28		9060A		200 mL		5 mL			

Batch Notes	
Sulfuric Acid ID	sulfuricacid_00199, 0.2%H2SO4_00276
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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG No.:

Batch Number: 393018 Batch Start Date: 10/26/17 16:02 Batch Analyst: Jewell, Connie C

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TOC ICV Std 00033	TOC LCS Std 00038			
ICV 280-393018/2		9060A		50 mL	1 mL				
LCS 280-393018/4		9060A		200 mL		5 mL			
CCV 280-393018/16		9060A		200 mL		5 mL			
CCV 280-393018/28		9060A		200 mL		5 mL			

Batch Notes	
Sulfuric Acid ID	sulfuricacid_00199, 0.2%H2SO4_00276
Pipette ID	wc5000cj, wc1000cj, wc200cj

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.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-102516-1

SDG No.:

Batch Number: 393019 Batch Start Date: 10/26/17 16:02 Batch Analyst: Jewell, Connie C

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TOC ICV Std 00033	TOC LCS Std 00038			
ICV 280-393019/2		9060A		50 mL	1 mL				
LCS 280-393019/4		9060A		200 mL		5 mL			
CCV 280-393019/16		9060A		200 mL		5 mL			
CCV 280-393019/28		9060A		200 mL		5 mL			

Batch Notes	
Sulfuric Acid ID	sulfuricacid_00199, 0.2%H2SO4_00276
Pipette ID	wc5000cj, wc1000cj, wc200cj

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.

pH OT WBK/18 OT WHS/17

	Analysis	Sample Name	Dilution	Result	Comment	Date / Time	Vial
1	NPOC	ICV	1.000				1
2	NPOC	ICB	1.000				2
3	NPOC	LCS	1.000				3
4	NPOC	LCSD	1.000				4
5	NPOC	MB	1.000				5
6	NPOC	TIC	1.000				6
7	NPOC	280-102468-f-1	1.000				7
8	NPOC	MS 280-102468-f-1	1.000				8
9	NPOC	MSD 280-102468-f-	1.000				9
10	NPOC	280-102468-f-2	1.000				10
11	NPOC	280-102468-e-3	1.000				11
12	NPOC	280-102468-d-4	1.000				12
13	NPOC	280-102468-f-5	1.000				13
14	NPOC	280-102516-a-1	1.000				14
15	NPOC	280-102516-a-3	1.000				15
16	NPOC	CCV	1.000				16
17	NPOC	CCB	1.000				17
18	NPOC	280-102516-a-4	1.000				18
19	NPOC	280-102516-a-5	1.000				19
20	NPOC	280-102516-a-6	1.000				20
21	NPOC	280-102516-a-7	1.000				21
22	NPOC	280-102475-a-1	1.000				22
23	NPOC	MS 280-102475-a-1	1.000				23
24	NPOC	MSD 280-102475-a-	1.000				24
25	NPOC	280-102475-a-6	1.000				25
26	NPOC	280-102475-a-7	1.000				26
27	NPOC	280-102475-a-8	1.000				27
28	NPOC	CCV	1.000				28
29	NPOC	CCB	1.000				29
30	NPOC	280-102475-a-9	1.000				30
31	NPOC	280-102475-a-10	1.000				31
32	NPOC	280-102475-a-11	1.000				32
33	NPOC	280-102475-a-12	1.000				33
34	NPOC	280-102475-a-13	1.000				34
35	NPOC	LCS	1.000				35
36	NPOC	LCSD	1.000				36
37	NPOC	MB	1.000				37
38	NPOC	TIC	1.000				38
39	NPOC	280-102702-a-1	1.000				39
40	NPOC	CCV	1.000				40
41	NPOC	CCB	1.000				41
42	NPOC	280-102702-a-3	1.000				42
43	NPOC	280-102702-b-5	1.000				43
44	NPOC	280-102702-b-6	1.000				44
45	NPOC	280-102702-a-7	1.000				45
46	NPOC	280-102529-b-2	1.000				46
47	NPOC	280-102529-b-3	1.000				47
48	NPOC	280-102529-b-4	1.000				48
49	NPOC	280-102529-b-5	1.000				49
50	NPOC	280-102482-b-1	1.000				50
51	NPOC	280-102482-b-3	1.000				51
52	NPOC	CCV	1.000				52
53	NPOC	CCB	1.000				53
54	NPOC	280-102482-d-5	1.000				54
55	NPOC	280-102482-l-7	1.000				55
56	NPOC	MS 280-102482-l-7	1.000				56
57	NPOC	MSD 280-102482-l-	1.000				57
58	NPOC	280-102482-c-10	1.000				58
59	NPOC	280-102482-b-11	1.000				59
60	NPOC	280-102482-d-13	1.000				60
61	NPOC	280-102482-c-15	1.000				61
62	NPOC	280-102482-d-17	1.000				62
63	NPOC	280-102482-d-19	1.000				63
64	NPOC	CCV	1.000				64
65	NPOC	CCB	1.000				65
66	NPOC	MS 280-102482-d-1	1.000				66

	Analysis	Sample Name	Dilution	Result	Comment	Date / Time	Vial
67	NPOC	MSD 280-102482-d-	1.000				67
68	NPOC	280-102482-d-21	1.000				68
69	NPOC	CCV	1.000				69
70	NPOC	CCB	1.000				70

	Analysis	Sample Name	Dilution	Result	Comment	Date / Time	Vial
1	NPOC	ICV	1.000	NPOC:20.21ppm		10/25/2017 01:41:23	1
2	NPOC	ICB	1.000	NPOC:0.2440ppm		10/25/2017 01:55:56	2
3	NPOC	LCS	1.000	NPOC:24.54ppm		10/25/2017 02:11:24	3
4	NPOC	LCSD	1.000	NPOC:24.75ppm		10/25/2017 02:26:55	4
5	NPOC	MB	1.000	NPOC:0.2183ppm		10/25/2017 02:41:30	5
6	NPOC	TIC	1.000	NPOC:0.2580ppm		10/25/2017 02:56:05	6
7	NPOC	280-102468-f-1	1.000	NPOC:20.08ppm		10/25/2017 03:11:18	7
8	NPOC	MS 280-102468-f-1	1.000	NPOC:45.06ppm		10/25/2017 03:26:45	8
9	NPOC	MSD 280-102468-f-	1.000	NPOC:45.89ppm		10/25/2017 03:42:10	9
10	NPOC	280-102468-f-2	1.000	NPOC:1.803ppm		10/25/2017 03:56:45	10
11	NPOC	280-102468-e-3	1.000	NPOC:2.054ppm		10/25/2017 04:11:20	11
12	NPOC	280-102468-d-4	1.000	NPOC:1.960ppm		10/25/2017 04:28:01	12
13	NPOC	280-102468-f-5	1.000	NPOC:0.4940ppm		10/25/2017 04:44:40	13
14	NPOC	280-102516-a-1	1.000	NPOC:3.503ppm		10/25/2017 04:59:13	14
15	NPOC	280-102516-a-3	1.000	NPOC:53.22ppm		10/25/2017 05:14:43	15
16	NPOC	CCV	1.000	NPOC:24.37ppm		10/25/2017 05:32:23	16
17	NPOC	CCB	1.000	NPOC:0.2093ppm		10/25/2017 05:46:56	17
18	NPOC	280-102516-a-4	1.000	NPOC:5.090ppm		10/25/2017 06:03:37	18
19	NPOC	280-102516-a-5	1.000	NPOC:6.902ppm		10/25/2017 06:20:23	19
20	NPOC	280-102516-a-6	1.000	NPOC:4.073ppm		10/25/2017 06:34:56	20
21	NPOC	280-102516-a-7	1.000	NPOC:4.135ppm		10/25/2017 06:49:31	21
22	NPOC	280-102475-a-1	1.000	NPOC:0.4436ppm		10/25/2017 07:06:12	22
23	NPOC	MS 280-102475-a-1	1.000	NPOC:23.84ppm		10/25/2017 07:21:20	23
24	NPOC	MSD 280-102475-a-	1.000	NPOC:24.03ppm		10/25/2017 07:36:32	24
25	NPOC	280-102475-a-6	1.000	NPOC:0.3700ppm		10/25/2017 07:51:07	25
26	NPOC	280-102475-a-7	1.000	NPOC:0.3916ppm		10/25/2017 08:05:42	26
27	NPOC	280-102475-a-8	1.000	NPOC:0.4074ppm		10/25/2017 08:20:17	27
28	NPOC	CCV	1.000	NPOC:23.38ppm		10/25/2017 08:35:58	28
29	NPOC	CCB	1.000	NPOC:0.1970ppm		10/25/2017 08:53:19	29
30	NPOC	280-102475-a-9	1.000	NPOC:0.4181ppm		10/25/2017 09:07:53	30
31	NPOC	280-102475-a-10	1.000	NPOC:0.3149ppm		10/25/2017 09:22:28	31
32	NPOC	280-102475-a-11	1.000	NPOC:0.3464ppm		10/25/2017 09:37:23	32
33	NPOC	280-102475-a-12	1.000	NPOC:1.435ppm		10/25/2017 09:51:58	33
34	NPOC	280-102475-a-13	1.000	NPOC:1.426ppm		10/25/2017 10:06:33	34
35	NPOC	LCS	1.000	NPOC:23.94ppm		10/25/2017 10:21:52	35
36	NPOC	LCSD	1.000	NPOC:23.58ppm		10/25/2017 10:37:17	36
37	NPOC	MB	1.000	NPOC:0.2023ppm		10/25/2017 10:51:52	37
38	NPOC	TIC	1.000	NPOC:0.2473ppm		10/25/2017 11:06:27	38
39	NPOC	280-102702-a-1	1.000	NPOC:1.251ppm		10/25/2017 11:21:02	39
40	NPOC	CCV	1.000	NPOC:23.59ppm		10/25/2017 11:38:39	40
41	NPOC	CCB	1.000	NPOC:0.2112ppm		10/25/2017 11:53:13	41
42	NPOC	280-102702-a-3	1.000	NPOC:2.361ppm		10/26/2017 12:07:50	42
43	NPOC	280-102702-b-5	1.000	NPOC:0.6611ppm		10/26/2017 12:22:30	43
44	NPOC	280-102702-b-6	1.000	NPOC:0.9708ppm		10/26/2017 12:37:09	44
45	NPOC	280-102702-a-7	1.000	NPOC:0.9212ppm		10/26/2017 12:51:45	45
46	NPOC	280-102529-b-2	1.000	NPOC:12.31ppm		10/26/2017 01:06:20	46
47	NPOC	280-102529-b-3	1.000	NPOC:1.487ppm		10/26/2017 01:23:01	47
48	NPOC	280-102529-b-4	1.000	NPOC:0.000ppm			48
49	NPOC	280-102529-b-5	1.000				49
50	NPOC	280-102482-b-1	1.000				50
51	NPOC	280-102482-b-3	1.000				51
52	NPOC	CCV	1.000				52
53	NPOC	CCB	1.000				53
54	NPOC	280-102482-d-5	1.000				54
55	NPOC	280-102482-l-7	1.000				55
56	NPOC	MS 280-102482-l-7	1.000				56
57	NPOC	MSD 280-102482-l-	1.000				57
58	NPOC	280-102482-c-10	1.000				58
59	NPOC	280-102482-b-11	1.000				59
60	NPOC	280-102482-d-13	1.000				60
61	NPOC	280-102482-c-15	1.000				61
62	NPOC	280-102482-d-17	1.000				62
63	NPOC	280-102482-d-19	1.000				63
64	NPOC	CCV	1.000				64
65	NPOC	CCB	1.000				65
66	NPOC	MS 280-102482-d-1	1.000				66
67	NPOC	MSD 280-102482-d-	1.000				67
68	NPOC	280-102482-d-21	1.000				68
69	NPOC	CCV	1.000				69

	Analysis	Sample Name	Dilution	Result	Comment	Date / Time	Vial
70	NPOC	CCB	1.000				70

TOC-V Cal Curve Information
1-50 PPM TOC.2017_09_26_13_04_06.cal

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.2017_09_26_13_04_06.cal
Status	Completed
Comment:	

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.2548	50uL	1	*******	E	09/26/2017 01:12:07 F
2	0.4648	50uL	1	*******		09/26/2017 01:14:13 F
3	0.4920	50uL	1	*******		09/26/2017 01:16:19 F

Acid Add.	1.500%
Sp. Time	90.00sec
Mean Area	0.4784
SD Area	0.01923
CV Area	4.02%
Vial	1

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.238	50uL	1	*******	E	09/26/2017 01:24:34 F
2	4.522	50uL	1	*******		09/26/2017 01:27:12 F
3	4.383	50uL	1	*******		09/26/2017 01:29:18 F

Acid Add.	1.500%
Sp. Time	90.00sec
Mean Area	4.453
SD Area	0.09829
CV Area	2.21%
Vial	2

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	19.49	50uL	1	*******		09/26/2017 01:37:38 F
2	19.58	50uL	1	*******		09/26/2017 01:39:49 F

Acid Add.	1.500%
Sp. Time	90.00sec
Mean Area	19.54
SD Area	0.06364
CV Area	0.33%
Vial	3

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	38.80	50uL	1	*******		09/26/2017 01:48:18 F
2	39.13	50uL	1	*******		09/26/2017 01:50:36 F

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 38.97
SD Area 0.2333
CV Area 0.60%
Vial 4

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	96.93	50uL	1	*******		09/26/2017 01:59:14 F
2	97.36	50uL	1	*******		09/26/2017 02:01:36 F

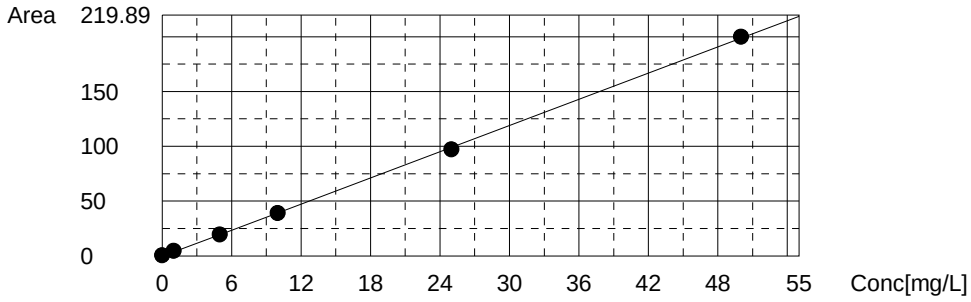
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 97.15
SD Area 0.3041
CV Area 0.31%
Vial 5

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	199.8	50uL	1	*******		09/26/2017 02:10:13 F
2	200.0	50uL	1	*******		09/26/2017 02:12:40 F

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 199.9
SD Area 0.1414
CV Area 0.07%
Vial 6

Slope: 3.981
Intercept -0.3024
r^2 0.9998
r 0.9999
Zero Shift No



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	

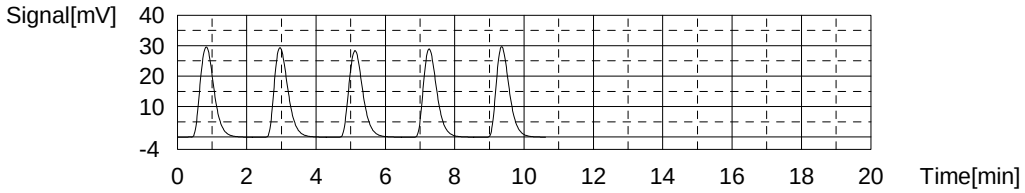
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:20.21ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	83.44	21.03ppm	50uL	1	E	1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 01:32:07 PM
2	81.93	20.66ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 01:34:27 PM
3	80.67	20.34ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 01:36:49 PM
4	78.87	19.89ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 01:39:07 PM
5	79.16	19.96ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 01:41:23 PM

Mean Area	80.16
Mean Conc.	20.21ppm



Sample

Sample Name:	ICB
Sample ID:	
Origin:	TOC .met
Status	Completed
Chk. Result	

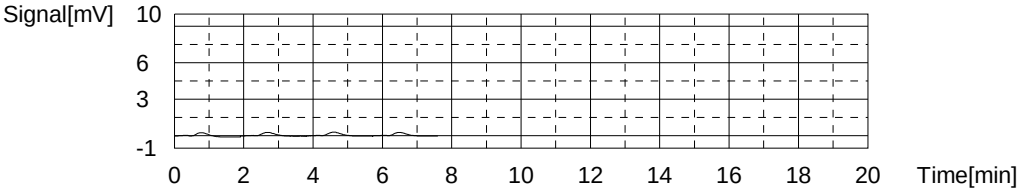
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2440ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6508	0.2394ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 01:49:38 PM
2	0.7079	0.2538ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 01:51:44 PM
3	0.6893	0.2491ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 01:53:50 PM
4	0.6281	0.2337ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 01:55:56 PM

Mean Area 0.6690
Mean Conc. 0.2440ppm



Sample

Sample Name: LCS
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

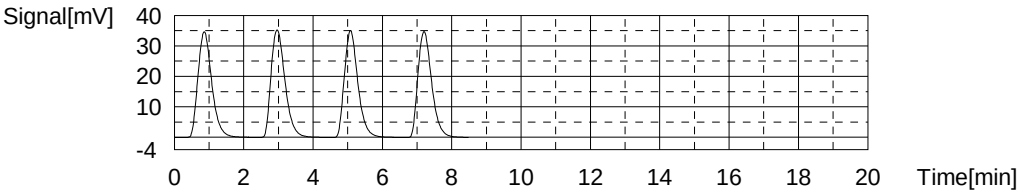
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.54ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	97.07	24.46ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:04:27 PM
2	99.98	25.19ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:06:45 PM
3	95.80	24.14ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:09:05 PM
4	96.70	24.37ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:11:24 PM

Mean Area 97.39
Mean Conc. 24.54ppm



Sample

Sample Name: LCSD
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

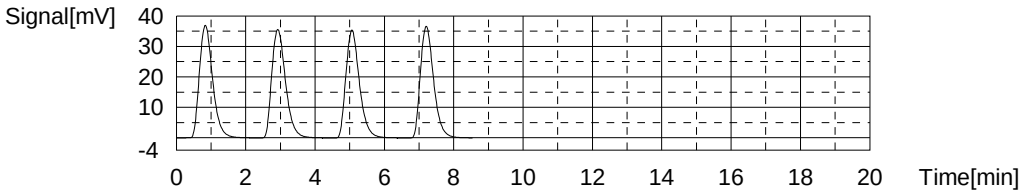
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.75ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.80	24.89ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:19:53 PM
2	99.10	24.97ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:22:12 PM
3	96.91	24.42ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:24:33 PM
4	98.18	24.74ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:26:55 PM

Mean Area 98.25
Mean Conc. 24.75ppm



Sample

Sample Name: MB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

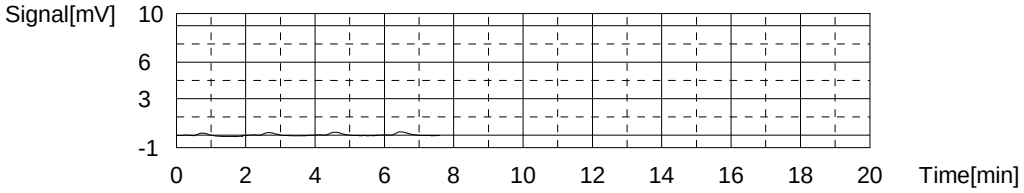
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2183ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4522	0.1895ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:35:12 PM
2	0.5277	0.2085ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:37:18 PM
3	0.6137	0.2301ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:39:24 PM
4	0.6734	0.2451ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:41:30 PM

Mean Area 0.5668
Mean Conc. 0.2183ppm



Sample

Sample Name: TIC
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

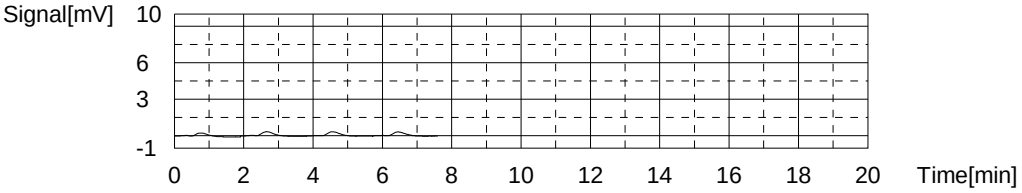
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2580ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5924	0.2248ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:49:47 PM
2	0.7501	0.2644ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:51:53 PM
3	0.7827	0.2726ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:53:59 PM
4	0.7743	0.2704ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 02:56:05 PM

Mean Area 0.7249
Mean Conc. 0.2580ppm



Sample

Sample Name: 280-102468-f-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

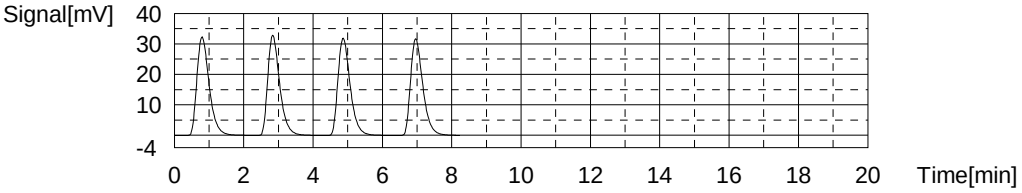
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:20.08ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	80.45	20.28ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:04:31 PM
2	79.86	20.14ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:06:44 PM
3	79.24	19.98ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:09:02 PM
4	78.96	19.91ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:11:18 PM

Mean Area 79.63
Mean Conc. 20.08ppm



Sample

Sample Name: MS 280-102468-f-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

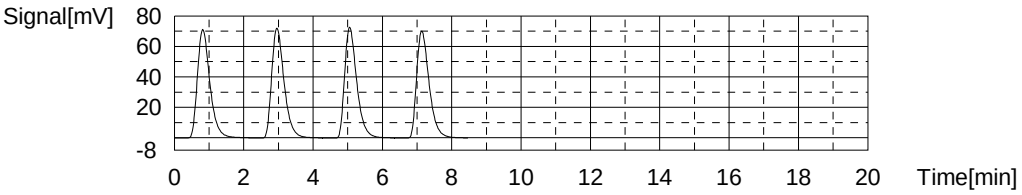
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:45.06ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	179.2	45.09ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:19:50 PM
2	181.2	45.59ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:22:09 PM
3	178.3	44.86ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:24:26 PM
4	177.6	44.69ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:26:45 PM

Mean Area 179.1
Mean Conc. 45.06ppm



Sample

Sample Name: MSD 280-102468-f-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

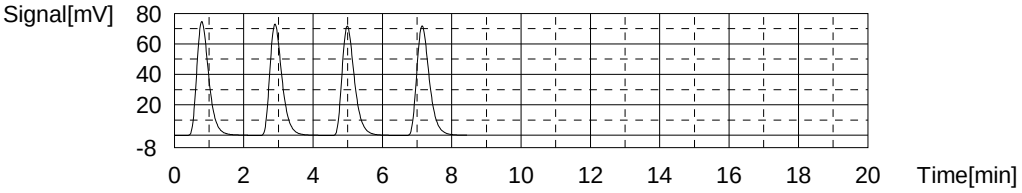
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:45.89ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	182.1	45.82ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:35:14 PM
2	181.5	45.67ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:37:31 PM
3	181.2	45.59ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:39:52 PM
4	184.8	46.49ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:42:10 PM

Mean Area 182.4
Mean Conc. 45.89ppm



Sample

Sample Name: 280-102468-f-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

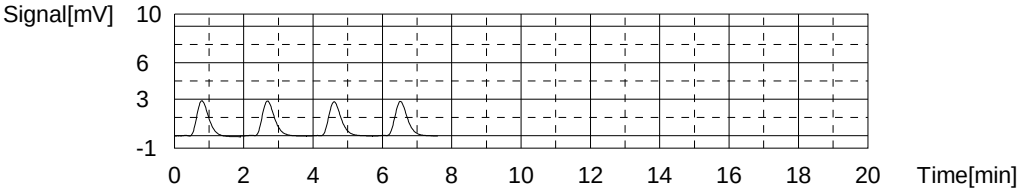
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.803ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.864	1.800ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:50:27 PM
2	6.876	1.803ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:52:33 PM
3	6.854	1.798ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:54:39 PM
4	6.905	1.810ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 03:56:45 PM

Mean Area 6.875
Mean Conc. 1.803ppm



Sample

Sample Name: 280-102468-e-3
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

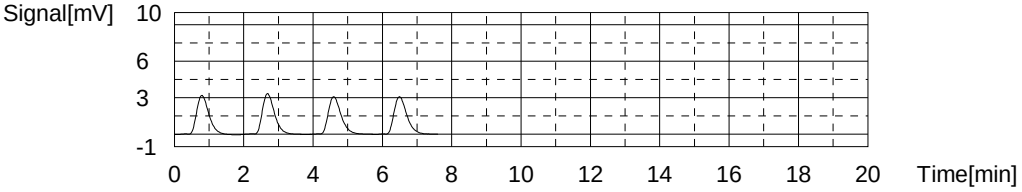
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.054ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.773	2.028ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:05:02 PM
2	8.029	2.093ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:07:08 PM
3	7.826	2.042ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:09:14 PM
4	7.865	2.051ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:11:20 PM

Mean Area 7.873
Mean Conc. 2.054ppm



Sample

Sample Name: 280-102468-d-4
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

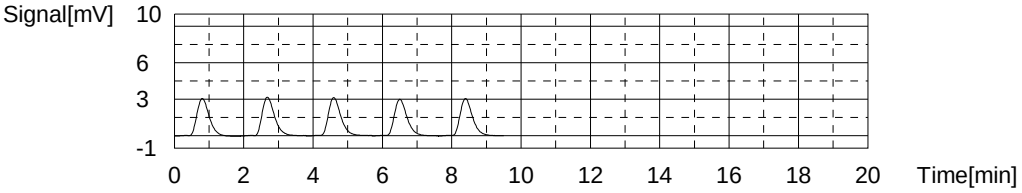
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.960ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.487	1.957ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:19:37 PM
2	7.760	2.025ppm	50uL	1	E	1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:21:43 PM
3	7.662	2.000ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:23:49 PM
4	7.428	1.942ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:25:55 PM
5	7.431	1.942ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:28:01 PM

Mean Area 7.502
Mean Conc. 1.960ppm



Sample

Sample Name: 280-102468-f-5
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

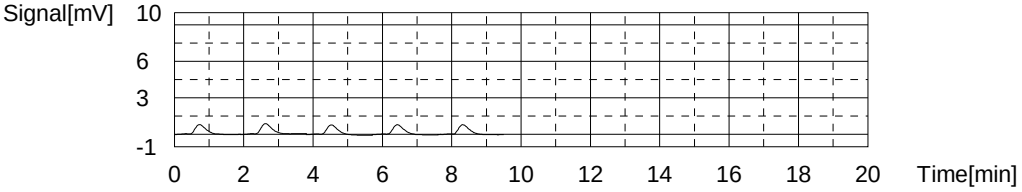
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4940ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.651	0.4907ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:36:16 PM
2	1.950	0.5658ppm	50uL	1	E	1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:38:22 PM
3	1.714	0.5065ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:40:28 PM
4	1.699	0.5027ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:42:34 PM
5	1.593	0.4761ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:44:40 PM

Mean Area 1.664
Mean Conc. 0.4940ppm



Sample

Sample Name: 280-102516-a-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

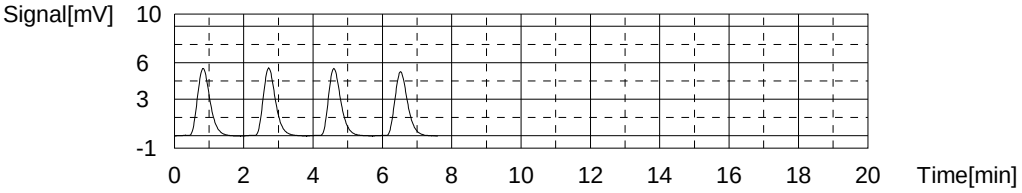
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:3.503ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.95	3.580ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:52:55 PM
2	13.69	3.515ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:55:01 PM
3	13.60	3.492ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:57:07 PM
4	13.34	3.427ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 04:59:13 PM

Mean Area 13.65
Mean Conc. 3.503ppm



Sample

Sample Name: 280-102516-a-3
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

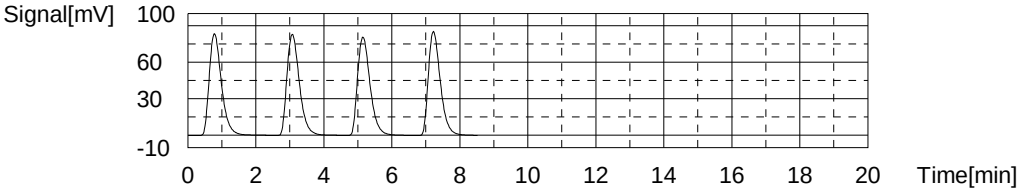
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:53.22ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	210.7	53.00ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:07:53 PM
2	214.3	53.90ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:10:10 PM
3	209.5	52.70ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:12:27 PM
4	211.8	53.28ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:14:43 PM

Mean Area 211.6
Mean Conc. 53.22ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

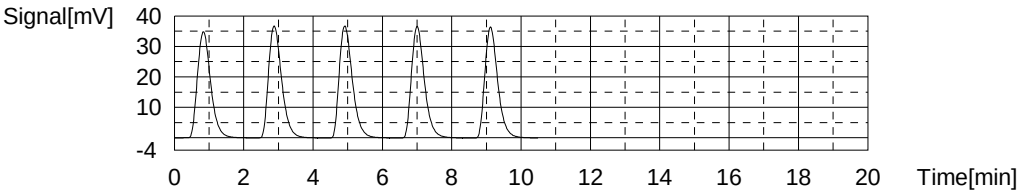
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.37ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	93.16	23.48ppm	50uL	1	E	1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:23:10 PM
2	97.97	24.68ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:25:25 PM
3	97.65	24.60ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:27:41 PM
4	96.01	24.19ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:30:00 PM
5	95.19	23.99ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:32:23 PM

Mean Area 96.70
Mean Conc. 24.37ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

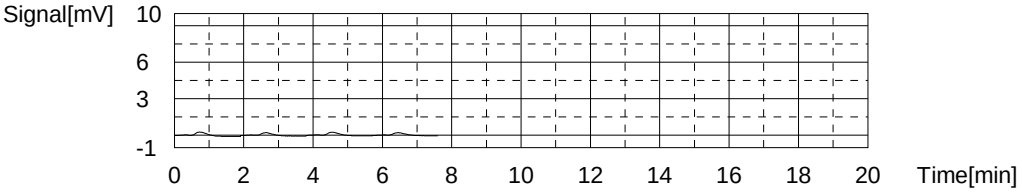
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2093ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6149	0.2304ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:40:38 PM
2	0.4498	0.1889ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:42:44 PM
3	0.5529	0.2148ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:44:50 PM
4	0.5065	0.2032ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:46:56 PM

Mean Area 0.5310
Mean Conc. 0.2093ppm



Sample

Sample Name: 280-102516-a-4
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

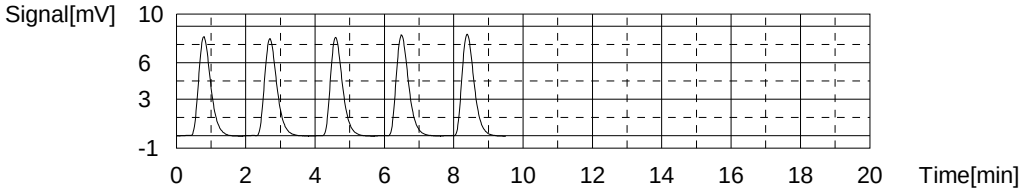
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:5.090ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.74	5.034ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:55:13 PM
2	19.79	5.047ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:57:19 PM
3	19.78	5.044ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 05:59:25 PM
4	20.66	5.265ppm	50uL	1	E	1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:01:31 PM
5	20.53	5.233ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:03:37 PM

Mean Area 19.96
Mean Conc. 5.090ppm



Sample

Sample Name: 280-102516-a-5
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

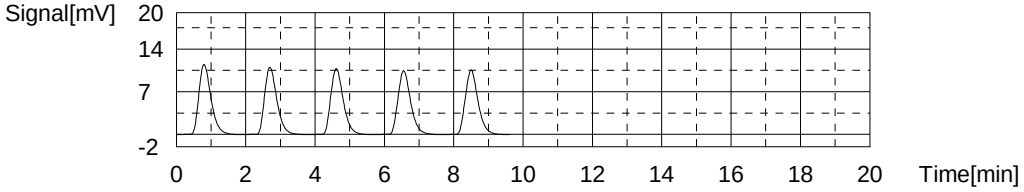
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:6.902ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	28.14	7.144ppm	50uL	1	E	1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:11:52 PM
2	27.35	6.946ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:13:58 PM
3	27.43	6.966ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:16:05 PM
4	26.74	6.793ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:18:14 PM
5	27.19	6.906ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:20:23 PM

Mean Area 27.18
Mean Conc. 6.902ppm



Sample

Sample Name: 280-102516-a-6
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

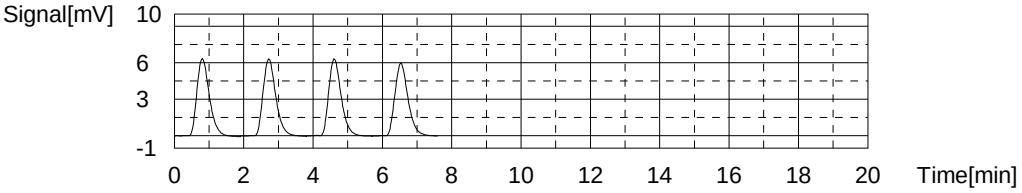
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.073ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.90	4.070ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:28:38 PM
2	16.20	4.145ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:30:44 PM
3	15.87	4.062ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:32:50 PM
4	15.68	4.014ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:34:56 PM

Mean Area 15.91
Mean Conc. 4.073ppm



Sample

Sample Name: 280-102516-a-7
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

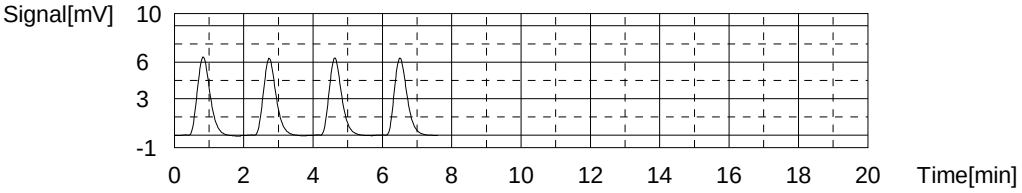
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:4.135ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.47	4.213ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:43:13 PM
2	16.13	4.127ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:45:19 PM
3	15.99	4.092ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:47:25 PM
4	16.05	4.107ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:49:31 PM

Mean Area 16.16
Mean Conc. 4.135ppm



Sample

Sample Name: 280-102475-a-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

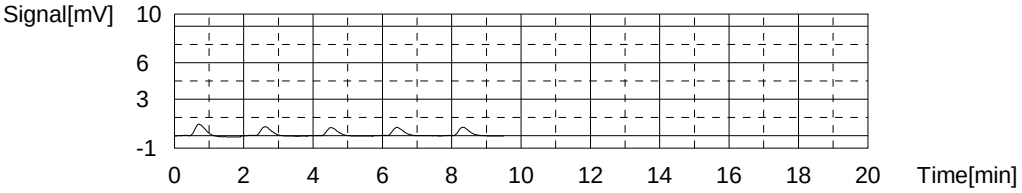
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4436ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.011	0.5811ppm	50uL	1	E	1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:57:48 PM
2	1.532	0.4608ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 06:59:54 PM
3	1.416	0.4316ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:02:00 PM
4	1.434	0.4361ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:04:06 PM
5	1.472	0.4457ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:06:12 PM

Mean Area 1.464
Mean Conc. 0.4436ppm



Sample

Sample Name: MS 280-102475-a-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

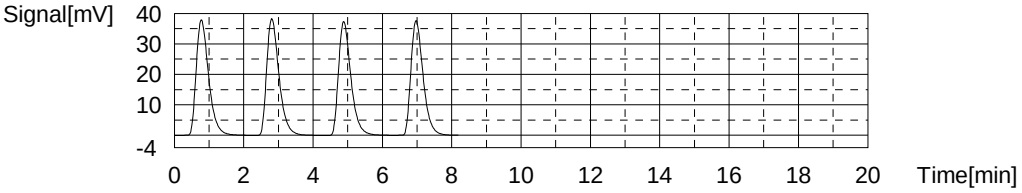
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:23.84ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	95.31	24.02ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:14:35 PM
2	95.99	24.19ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:16:51 PM
3	93.71	23.61ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:19:08 PM
4	93.41	23.54ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:21:20 PM

Mean Area 94.61
Mean Conc. 23.84ppm



Sample

Sample Name: MSD 280-102475-a-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

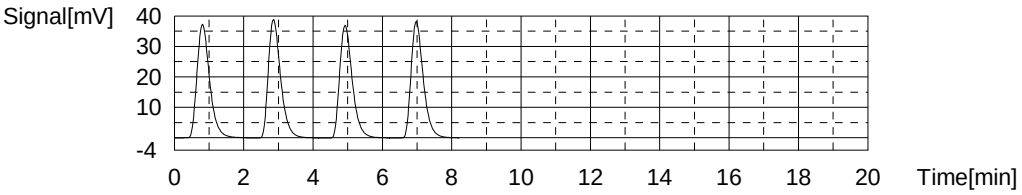
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:24.03ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	95.33	24.02ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:29:48 PM
2	97.16	24.48ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:32:03 PM
3	94.22	23.74ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:34:18 PM
4	94.70	23.86ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:36:32 PM

Mean Area 95.35
Mean Conc. 24.03ppm



Sample

Sample Name: 280-102475-a-6
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

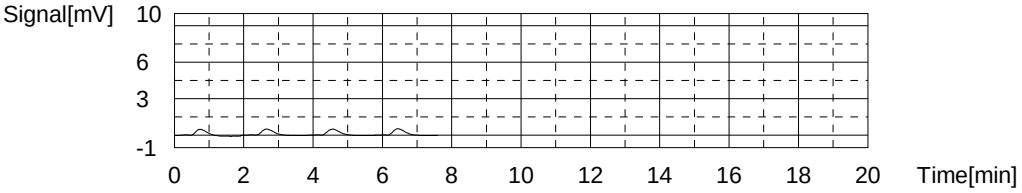
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3700ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.126	0.3588ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:44:49 PM
2	1.181	0.3726ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:46:55 PM
3	1.166	0.3688ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:49:01 PM
4	1.210	0.3799ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:51:07 PM

Mean Area 1.171
Mean Conc. 0.3700ppm



Sample

Sample Name: 280-102475-a-7
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

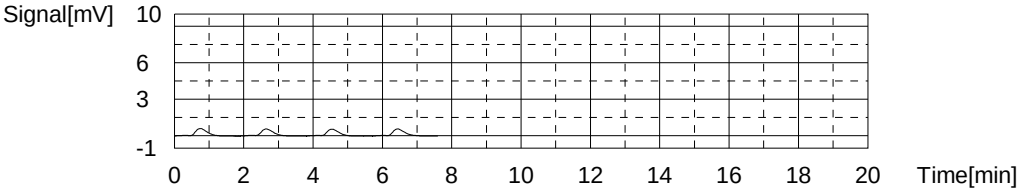
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3916ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.303	0.4032ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 07:59:24 PM
2	1.241	0.3877ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:01:30 PM
3	1.236	0.3864ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:03:36 PM
4	1.247	0.3892ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:05:42 PM

Mean Area 1.257
Mean Conc. 0.3916ppm



Sample

Sample Name: 280-102475-a-8
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

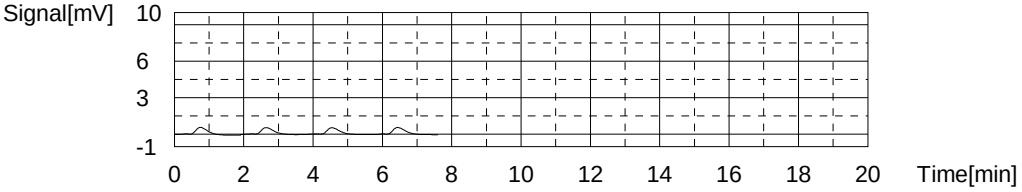
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4074ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.311	0.4053ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:13:59 PM
2	1.317	0.4068ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:16:05 PM
3	1.306	0.4040ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:18:11 PM
4	1.344	0.4135ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:20:17 PM

Mean Area 1.320
Mean Conc. 0.4074ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

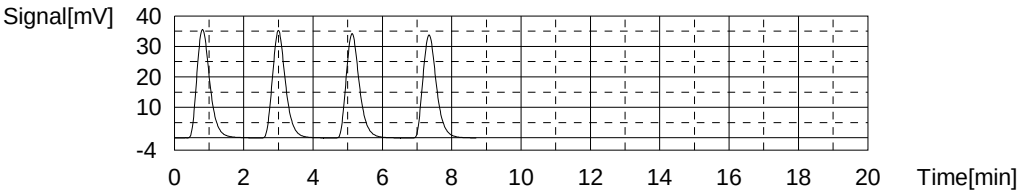
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:23.38ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	93.58	23.58ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:28:49 PM
2	93.11	23.46ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:31:10 PM
3	91.87	23.15ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:33:35 PM
4	92.57	23.33ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:35:58 PM

Mean Area 92.78
Mean Conc. 23.38ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

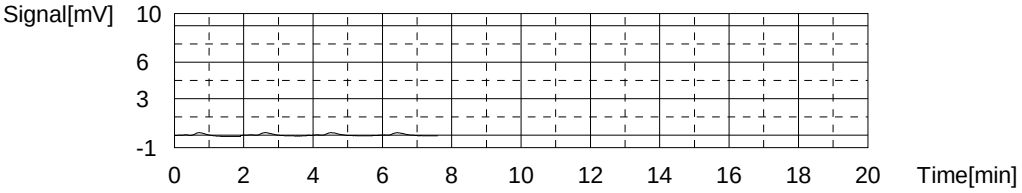
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.1970ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4831	0.1973ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:47:01 PM
2	0.4846	0.1977ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:49:07 PM
3	0.4704	0.1941ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:51:13 PM
4	0.4890	0.1988ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 08:53:19 PM

Mean Area 0.4818
Mean Conc. 0.1970ppm



Sample

Sample Name: 280-102475-a-9
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

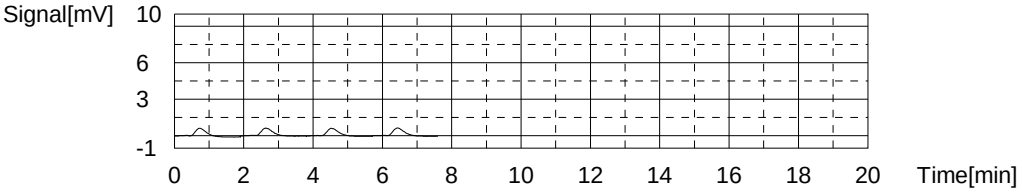
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.4181ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.306	0.4040ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:01:35 PM
2	1.377	0.4218ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:03:41 PM
3	1.397	0.4269ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:05:47 PM
4	1.369	0.4198ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:07:53 PM

Mean Area 1.362
Mean Conc. 0.4181ppm



Sample

Sample Name: 280-102475-a-10
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

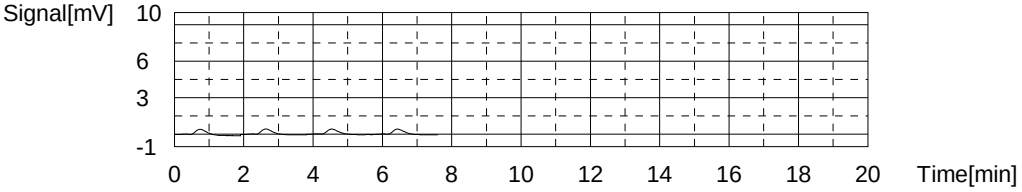
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3149ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9664	0.3187ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:16:10 PM
2	0.9479	0.3141ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:18:16 PM
3	0.9403	0.3121ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:20:22 PM
4	0.9511	0.3149ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:22:28 PM

Mean Area 0.9514
Mean Conc. 0.3149ppm



Sample

Sample Name: 280-102475-a-11
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

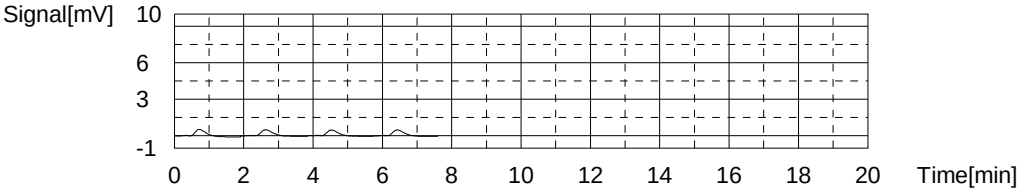
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.3464ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.109	0.3545ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:31:05 PM
2	1.107	0.3540ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:33:11 PM
3	1.018	0.3317ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:35:17 PM
4	1.072	0.3452ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:37:23 PM

Mean Area 1.077
Mean Conc. 0.3464ppm



Sample

Sample Name: 280-102475-a-12
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

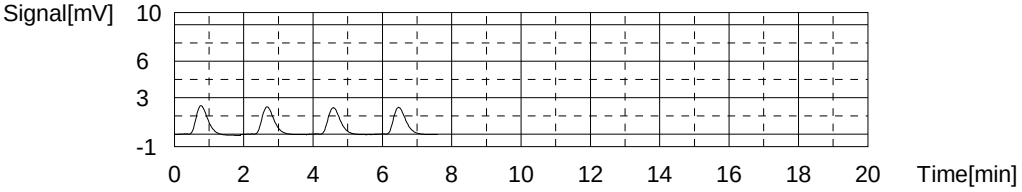
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.435ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.526	1.464ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:45:40 PM
2	5.381	1.428ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:47:46 PM
3	5.367	1.424ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:49:52 PM
4	5.361	1.423ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 09:51:58 PM

Mean Area 5.409
Mean Conc. 1.435ppm



Sample

Sample Name: 280-102475-a-13
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

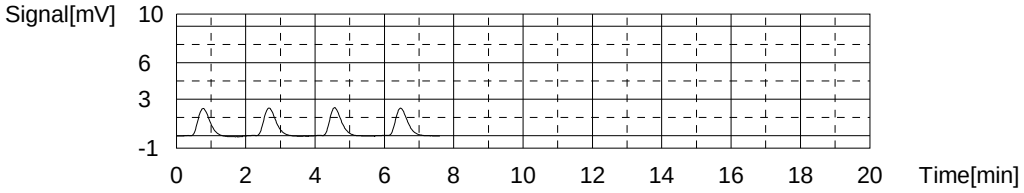
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.426ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.336	1.416ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:00:15 PM
2	5.522	1.463ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:02:21 PM
3	5.273	1.400ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:04:27 PM
4	5.376	1.426ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:06:33 PM

Mean Area 5.377
Mean Conc. 1.426ppm



Sample

Sample Name: LCS
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

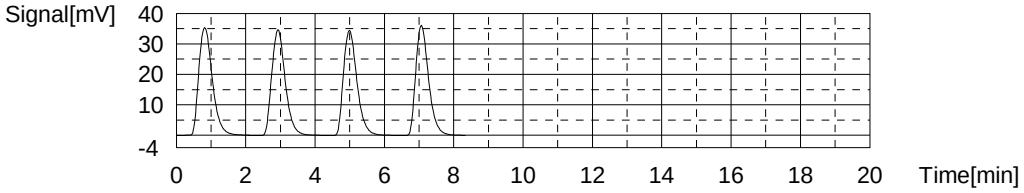
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:23.94ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	97.18	24.49ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:15:01 PM
2	94.82	23.89ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:17:18 PM
3	93.95	23.67ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:19:35 PM
4	94.06	23.70ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:21:52 PM

Mean Area 95.00
Mean Conc. 23.94ppm



Sample

Sample Name: LCSD
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

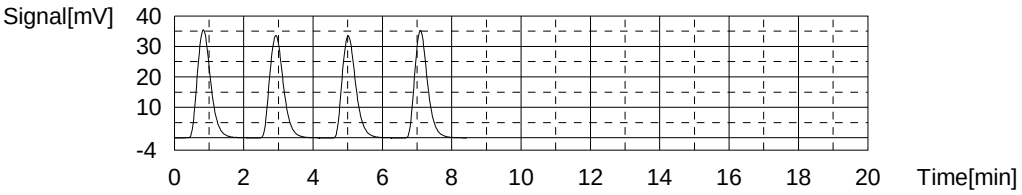
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:23.58ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	95.88	24.16ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:30:20 PM
2	93.82	23.64ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:32:38 PM
3	92.35	23.27ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:34:55 PM
4	92.28	23.25ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:37:17 PM

Mean Area 93.58
Mean Conc. 23.58ppm



Sample

Sample Name: MB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

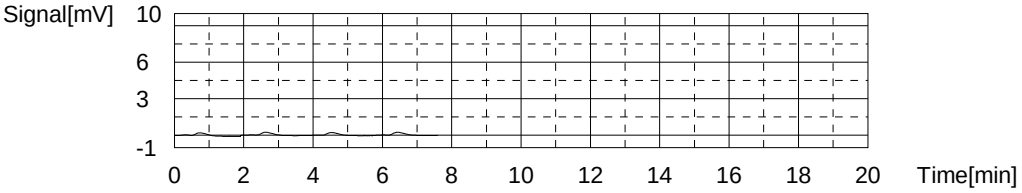
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2023ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4589	0.1912ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:45:34 PM
2	0.5259	0.2081ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:47:40 PM
3	0.4996	0.2014ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:49:46 PM
4	0.5276	0.2085ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 10:51:52 PM

Mean Area 0.5030
Mean Conc. 0.2023ppm



Sample

Sample Name: TIC
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

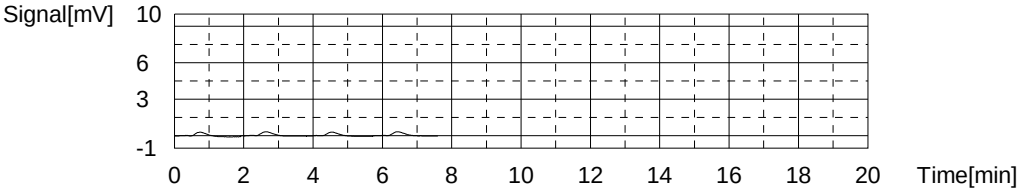
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2473ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6667	0.2434ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:00:09 PM
2	0.7092	0.2541ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:02:15 PM
3	0.6553	0.2406ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:04:21 PM
4	0.6979	0.2513ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:06:27 PM

Mean Area 0.6823
Mean Conc. 0.2473ppm



Sample

Sample Name: 280-102702-a-1
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

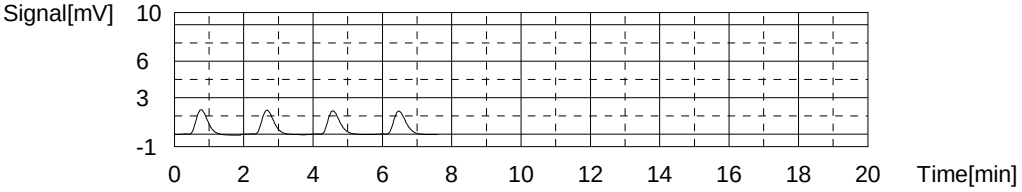
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.251ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.755	1.270ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:14:44 PM
2	4.672	1.249ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:16:50 PM
3	4.680	1.251ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:18:56 PM
4	4.613	1.235ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:21:02 PM

Mean Area 4.680
Mean Conc. 1.251ppm



Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

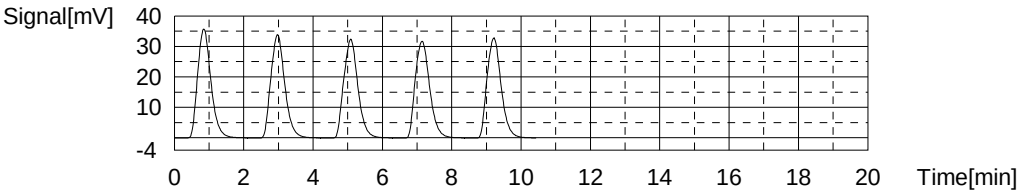
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:23.59ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	96.28	24.26ppm	50uL	1	E	1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:29:31 PM
2	95.60	24.09ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:31:49 PM
3	92.69	23.36ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:34:06 PM
4	92.54	23.32ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:36:22 PM
5	93.64	23.60ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:38:39 PM

Mean Area 93.62
Mean Conc. 23.59ppm



Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

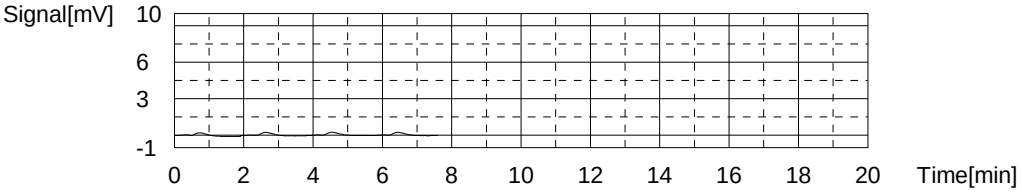
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.2112ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4949	0.2003ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:46:55 PM
2	0.5439	0.2126ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:49:01 PM
3	0.5496	0.2140ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:51:07 PM
4	0.5651	0.2179ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/25/2017 11:53:13 PM

Mean Area 0.5384
Mean Conc. 0.2112ppm



Sample

Sample Name: 280-102702-a-3
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

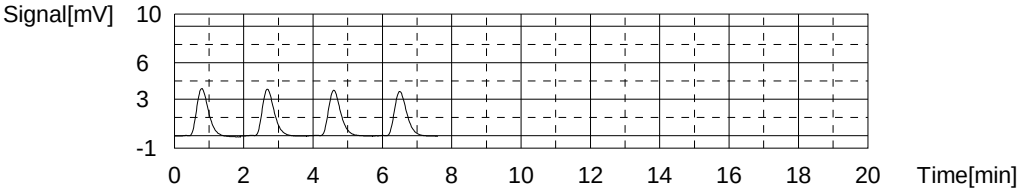
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:2.361ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.230	2.394ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:01:31 AM
2	9.112	2.365ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:03:38 AM
3	9.082	2.357ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:05:44 AM
4	8.971	2.329ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:07:50 AM

Mean Area 9.099
Mean Conc. 2.361ppm



Sample

Sample Name: 280-102702-b-5
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

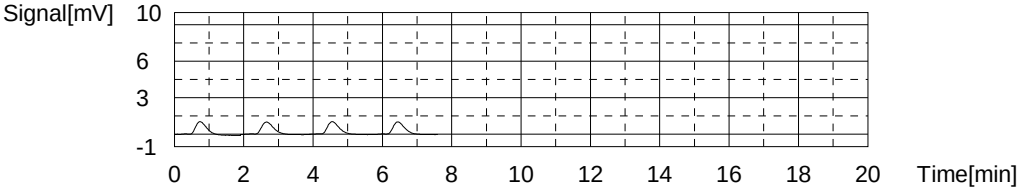
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.6611ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.314	0.6572ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:16:08 AM
2	2.358	0.6682ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:18:16 AM
3	2.330	0.6612ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:20:23 AM
4	2.317	0.6579ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:22:30 AM

Mean Area 2.330
Mean Conc. 0.6611ppm



Sample

Sample Name: 280-102702-b-6
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

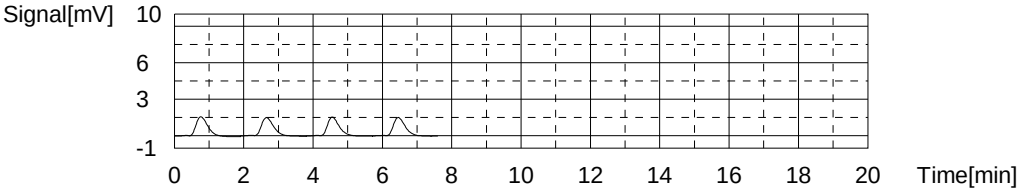
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.9708ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.618	0.9847ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:30:49 AM
2	3.535	0.9639ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:32:56 AM
3	3.583	0.9759ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:35:03 AM
4	3.514	0.9586ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:37:09 AM

Mean Area 3.563
Mean Conc. 0.9708ppm



Sample

Sample Name: 280-102702-a-7
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

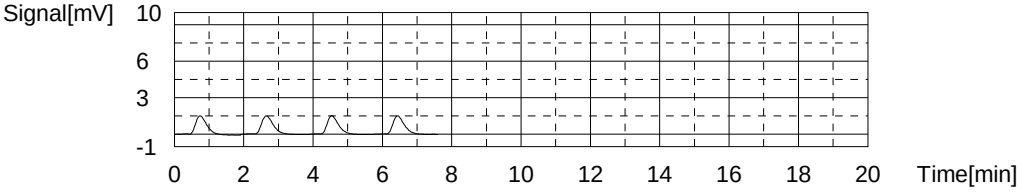
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.9212ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.309	0.9071ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:45:27 AM
2	3.380	0.9249ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:47:33 AM
3	3.419	0.9347ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:49:39 AM
4	3.352	0.9179ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 12:51:45 AM

Mean Area 3.365
Mean Conc. 0.9212ppm



Sample

Sample Name: 280-102529-b-2
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

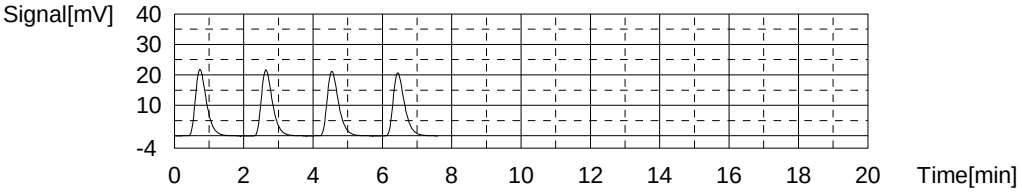
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:12.31ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	49.05	12.40ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 01:00:02 AM
2	49.05	12.40ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 01:02:08 AM
3	49.11	12.41ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 01:04:14 AM
4	47.69	12.05ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 01:06:20 AM

Mean Area 48.73
Mean Conc. 12.31ppm



Sample

Sample Name: 280-102529-b-3
Sample ID:
Origin: TOC .met
Status Completed
Chk. Result

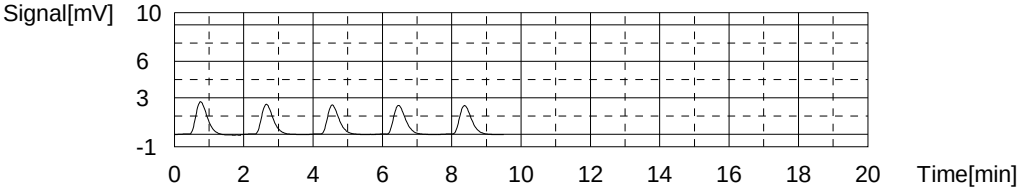
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:1.487ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.103	1.609ppm	50uL	1	E	1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 01:14:37 AM
2	5.662	1.498ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 01:16:43 AM
3	5.526	1.464ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 01:18:49 AM
4	5.656	1.497ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 01:20:55 AM
5	5.623	1.488ppm	50uL	1		1-50 PPM TOC.2017_09_26_13_04_06.cal	10/26/2017 01:23:01 AM

Mean Area 5.617
Mean Conc. 1.487ppm



Sample

Sample Name: 280-102529-b-4
Sample ID:
Origin: TOC .met
Status Aborted
Chk. Result

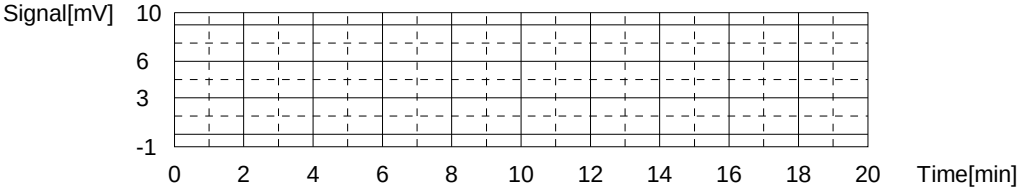
Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time

Mean Area 0.000
Mean Conc. 0.000ppm



Sample

Sample Name: 280-102529-b-5
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: 280-102482-b-1
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: 280-102482-b-3
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: 280-102482-d-5
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: 280-102482-l-7
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: MS 280-102482-l-7
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: MSD 280-102482-l-7
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: 280-102482-c-10
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: 280-102482-b-11
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: 280-102482-d-13
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: 280-102482-c-15
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: 280-102482-d-17
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: 280-102482-d-19
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: MS 280-102482-d-19
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: MSD 280-102482-d-19
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: 280-102482-d-21
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: CCV
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

Sample

Sample Name: CCB
Sample ID:
Origin: TOC .met
Status Defined
Chk. Result

Type	Anal.	Dil.	Result
Unknown	NPOC	1.000	NPOC:0.000ppm

1. Det

pH CT 10/26/17

	Analysis	Sample Name	Manual Diluti	~~Result~~	Notes	Date / Time	Vial
1*	NPOC	ICV	1.000	"			1
2*	NPOC	ICB	1.000	"			2
3*	NPOC	LCS	1.000	"			3
4*	NPOC	MB	1.000	"			4
5*	NPOC	TIC	1.000	"			5
6*	NPOC	280-102482-b-1	1.000	"			6
7*	NPOC	280-102482-b-3	1.000	"			7
8*	NPOC	280-102482-d-5	1.000	"			8
9*	NPOC	280-102482-l-7	1.000	"			9
10*	NPOC	MS 280-102482-l-7	1.000	"			10
11*	NPOC	MSD 280-102482-l-7	1.000	"			11
12*	NPOC	280-102482-c-10	1.000	"			12
13*	NPOC	280-102482-b-11	1.000	"			13
14*	NPOC	280-102482-d-13	1.000	"			14
15*	NPOC	CCV	1.000	"			15
16*	NPOC	CCB	1.000	"			16
17*	NPOC	280-102482-c-15	1.000	"			17
18*	NPOC	280-102482-d-17	1.000	"			18
19*	NPOC	280-102482-d-19	1.000	"			19
20*	NPOC	MS 280-102482-d-19	1.000	"			20
21*	NPOC	MSD 280-102482-d-19	1.000	"			21
22*	NPOC	280-102482-d-21	1.000	"			22
23*	NPOC	280-102516-a-3	2x 1.000	"	Dilution rerun		23
24*	NPOC	280-102702-b-1	1.000	"			24
25*	NPOC	280-102702-b-3	1.000	"			25
26*	NPOC	280-102702-a-5	1.000	"			26
27*	NPOC	CCV	1.000	"			27
28*	NPOC	CCB	1.000	"			28
29*	NPOC	280-102702-a-6	1.000	"			29
30*	NPOC	280-102702-b-7	1.000	"			30
31*	NPOC	280-102702-a-8	1.000	"			31
32*	NPOC	280-102711-a-5	1.000	"			32
33*	NPOC	280-102529-b-2	1.000	"			33
34*	NPOC	LCS	1.000	"			34
35*	NPOC	MB	1.000	"			35
36*	NPOC	TIC	1.000	"			36
37*	NPOC	280-102529-b-3	1.000	"			37
38*	NPOC	280-102529-b-4	1.000	"			38
39*	NPOC	CCV	1.000	"			39
40*	NPOC	CCB	1.000	"			40
41*	NPOC	280-102529-b-5	1.000	"			41
42*	NPOC	320-32498-i-1	1.000	"			42
43*	NPOC	320-32498-i-2	1.000	"			43
44*	NPOC	320-32498-i-3	1.000	"			44
45*	NPOC	320-32498-i-4	1.000	"			45
46*	NPOC	320-32498-i-5	1.000	"			46
47*	NPOC	280-102152-b-1	1.000	"			47
48*	NPOC	MS 280-102152-b-1	1.000	"			48
49*	NPOC	MSD 280-102152-b-1	1.000	"			49
50*	NPOC	280-102152-b-2	1.000	"			50
51*	NPOC	CCV	1.000	"			51

	Analysis	Sample Name	Manual Diluti	~~Result~~	Notes	Date / Time	Vial
52*	NPOC	CCB	1.000	"			52
53*	NPOC	280-102152-b-3	1.000	"			53
54*	NPOC	280-102152-b-4	1.000	"			54
55*	NPOC	280-102152-b-5	1.000	"			55
56*	NPOC	280-102152-b-6	1.000	"			56
57*	NPOC	280-102152-b-7	1.000	"			57
58*	NPOC	280-102152-b-8	1.000	"			58
59*	NPOC	280-102152-b-10	1.000	"			59
60*	NPOC	280-102152-b-11	1.000	"			60
61*	NPOC	280-102152-b-12	1.000	"			61
62*	NPOC	280-102152-f-13	1.000	"			62
63*	NPOC	CCV	1.000	"			63
64*	NPOC	CCB	1.000	"			64
65*	NPOC	MS 280-102152-f-13	1.000	"			65
66*	NPOC	MSD 280-102152-f-13	1.000	"			66
67*	NPOC	CCV	1.000	"			67
68*	NPOC	CCB	1.000	"			68

	Analysis	Sample Name	Manual Diluti	Result	Notes	Date / Time	Vial
1	NPOC	CAL 110716	1.000		Cal Curve O	10/26/2017 5:05:46	69, 70, 71, 7
2	NPOC	ICV	1.000	NPOC:20.43mg/L		10/26/2017 5:23:54	1
3	NPOC	ICB	1.000	NPOC:-0.03636mg/		10/26/2017 5:38:36	2
4	NPOC	LCS	1.000	NPOC:25.03mg/L		10/26/2017 5:56:32	3
5	NPOC	MB	1.000	NPOC:-0.03877mg/		10/26/2017 6:11:14	4
6	NPOC	TIC	1.000	NPOC:0.02446mg/		10/26/2017 6:25:57	5
7	NPOC	280-102482-b-1	1.000	NPOC:0.3746mg/L		10/26/2017 6:42:45	6
8	NPOC	280-102482-b-3	1.000	NPOC:0.2132mg/L		10/26/2017 6:57:27	7
9	NPOC	280-102482-d-5	1.000	NPOC:4.884mg/L		10/26/2017 7:14:14	8
10	NPOC	280-102482-l-7	1.000	NPOC:0.2677mg/L		10/26/2017 7:33:04	9
11	NPOC	MS 280-102482-l-7	1.000	NPOC:23.79mg/L		10/26/2017 7:49:55	10
12	NPOC	MSD 280-102482-l-7	1.000	NPOC:24.11mg/L		10/26/2017 8:04:48	11
13	NPOC	280-102482-c-10	1.000	NPOC:0.06863mg/		10/26/2017 8:21:35	12
14	NPOC	280-102482-b-11	1.000	NPOC:1.939mg/L		10/26/2017 8:40:25	13
15	NPOC	280-102482-d-13	1.000	NPOC:2.010mg/L		10/26/2017 8:57:06	14
16	NPOC	CCV	1.000	NPOC:24.14mg/L		10/26/2017 9:16:41	15
17	NPOC	CCB	1.000	NPOC:-0.02706mg/		10/26/2017 9:33:22	16
18	NPOC	280-102482-c-15	1.000	NPOC:0.1824mg/L		10/26/2017 9:48:04	17
19	NPOC	280-102482-d-17	1.000	NPOC:3.575mg/L		10/26/2017 10:04:5	18
20	NPOC	280-102482-d-19	1.000	NPOC:2.321mg/L		10/26/2017 10:21:3	19
21	NPOC	MS 280-102482-d-19	1.000	NPOC:27.00mg/L		10/26/2017 10:36:5	20
22	NPOC	MSD 280-102482-d-19	1.000	NPOC:26.45mg/L		10/26/2017 10:56:2	21
23	NPOC	280-102482-d-21	1.000	NPOC:3.842mg/L		10/26/2017 11:13:0	22
24	NPOC	280-102516-a-3	2.000	NPOC:50.36mg/L		10/26/2017 11:30:0	23
25	NPOC	280-102702-b-1	1.000	NPOC:1.035mg/L		10/26/2017 11:48:5	24
26	NPOC	280-102702-b-3	1.000	NPOC:1.807mg/L		10/27/2017 12:05:3	25
27	NPOC	280-102702-a-5	1.000	NPOC:0.4886mg/L		10/27/2017 12:22:1	26
28	NPOC	CCV	1.000	NPOC:23.43mg/L		10/27/2017 12:37:1	27
29	NPOC	CCB	1.000	NPOC:-0.03623mg/		10/27/2017 12:51:5	28
30	NPOC	280-102702-a-6	1.000	NPOC:0.8261mg/L		10/27/2017 1:08:46	29
31	NPOC	280-102702-b-7	1.000	NPOC:0.5998mg/L		10/27/2017 1:27:36	30
32	NPOC	280-102702-a-8	1.000	NPOC:0.7679mg/L		10/27/2017 1:46:21	31
33	NPOC	280-102711-a-5	1.000	NPOC:2.078mg/L		10/27/2017 2:05:26	32
34	NPOC	280-102529-b-2	1.000	NPOC:11.90mg/L		10/27/2017 2:22:08	33
35	NPOC	LCS	1.000	NPOC:22.88mg/L		10/27/2017 2:37:01	34
36	NPOC	MB	1.000	NPOC:-0.02205mg/		10/27/2017 2:51:45	35
37	NPOC	TIC	1.000	NPOC:0.03894mg/		10/27/2017 3:06:29	36
38	NPOC	280-102529-b-3	1.000	NPOC:1.198mg/L		10/27/2017 3:25:21	37
39	NPOC	280-102529-b-4	1.000	NPOC:1.294mg/L		10/27/2017 3:42:02	38
40	NPOC	CCV	1.000	NPOC:23.38mg/L		10/27/2017 3:59:10	39
41	NPOC	CCB	1.000	NPOC:-0.03064mg/		10/27/2017 4:13:53	40
42	NPOC	280-102529-b-5	1.000	NPOC:1.174mg/L		10/27/2017 4:30:41	41
43	NPOC	320-32498-i-1	1.000	NPOC:1.064mg/L		10/27/2017 4:49:32	42
44	NPOC	320-32498-i-2	1.000	NPOC:1.886mg/L		10/27/2017 5:06:13	43
45	NPOC	320-32498-i-3	1.000	NPOC:4.614mg/L		10/27/2017 5:23:00	44
46	NPOC	320-32498-i-4	1.000	NPOC:3.639mg/L		10/27/2017 5:41:51	45
47	NPOC	320-32498-i-5	1.000	NPOC:1.351mg/L		10/27/2017 6:00:36	46
48	NPOC	280-102152-b-1	1.000	NPOC:0.1536mg/L		10/27/2017 6:15:13	47
49	NPOC	MS 280-102152-b-1	1.000	NPOC:23.53mg/L		10/27/2017 6:32:15	48
50	NPOC	MSD 280-102152-b-1	1.000	NPOC:23.63mg/L		10/27/2017 6:49:20	49
51	NPOC	280-102152-b-2	1.000	NPOC:0.1387mg/L		10/27/2017 7:06:07	50
52	NPOC	CCV	1.000	NPOC:22.93mg/L		10/27/2017 7:20:55	51
53	NPOC	CCB	1.000	NPOC:-0.02467mg/		10/27/2017 7:37:43	52

	Analysis	Sample Name	Manual Diluti	Result	Notes	Date / Time	Vial
54	NPOC	280-102152-b-3	1.000	NPOC:0.1620mg/L		10/27/2017 7:52:26	53
55	NPOC	280-102152-b-4	1.000	NPOC:0.1447mg/L		10/27/2017 8:07:10	54
56	NPOC	280-102152-b-5	1.000	NPOC:0.1267mg/L		10/27/2017 8:21:55	55
57	NPOC	280-102152-b-6	1.000	NPOC:0.1346mg/L		10/27/2017 8:36:40	56
58	NPOC	280-102152-b-7	1.000	NPOC:0.1509mg/L		10/27/2017 8:51:25	57
59	NPOC	280-102152-b-8	1.000	NPOC:0.1704mg/L		10/27/2017 9:08:14	58
60	NPOC	280-102152-b-10	1.000	NPOC:0.2327mg/L		10/27/2017 9:25:02	59
61	NPOC	280-102152-b-11	1.000	NPOC:0.2351mg/L		10/27/2017 9:41:50	60
62	NPOC	280-102152-b-12	1.000	NPOC:0.1870mg/L		10/27/2017 9:58:38	61
63	NPOC	280-102152-f-13	1.000	NPOC:0.1880mg/L		10/27/2017 10:13:2	62
64	NPOC	CCV	1.000	NPOC:24.24mg/L		10/27/2017 10:32:4	63
65	NPOC	CCB	1.000	NPOC:0.02436mg/		10/27/2017 10:47:1	64
66	NPOC	MS 280-102152-f-13	1.000	NPOC:24.32mg/L		10/27/2017 11:02:2	65
67	NPOC	MSD 280-102152-f-13	1.000	NPOC:23.95mg/L		10/27/2017 11:19:3	66
68	NPOC	CCV	1.000	NPOC:23.35mg/L		10/27/2017 11:34:2	67
69	NPOC	CCB	1.000	NPOC:0.00649mg/		10/27/2017 11:49:0	68

Instr.Information

System	TOC-V cpn 3
Instrument Options	TOC/ASI/
Catalyst	Regular Sensitivity

Cal. Curve

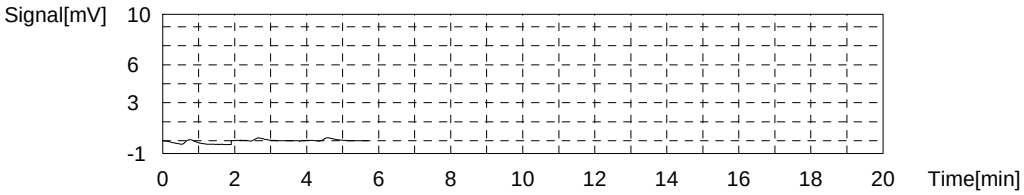
Sample Name:	CAL 110716
Sample ID:	Untitled
Cal. Curve:	TOC3.2017_10_26_15_52_21.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.6477	50uL	1	*******	E	10/26/2017 4:00:15 PM
2	0.4323	50uL	1	*******		10/26/2017 4:02:18 PM
3	0.5035	50uL	1	*******		10/26/2017 4:04:22 PM

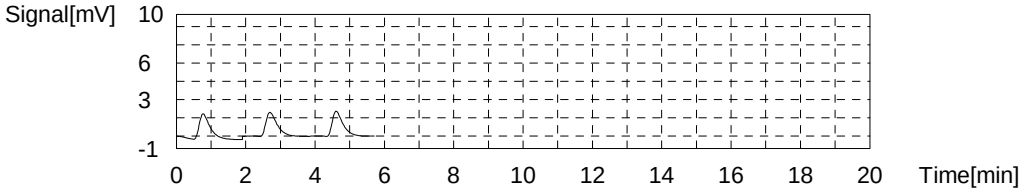
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 0.4679



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.513	50uL	1	*******	E	10/26/2017 4:12:53 PM
2	4.292	50uL	1	*******		10/26/2017 4:14:57 PM
3	4.393	50uL	1	*******		10/26/2017 4:17:01 PM

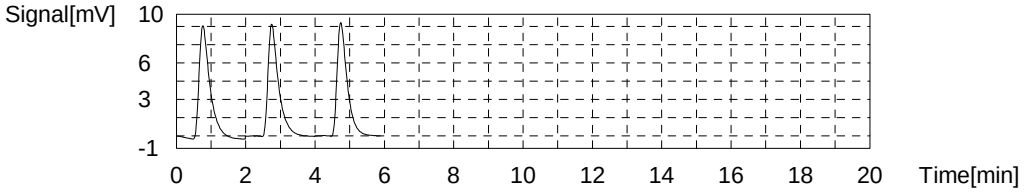
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 4.342



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	20.06	50uL	1	*******		10/26/2017 4:25:36 PM
2	19.29	50uL	1	*******		10/26/2017 4:27:46 PM
3	18.48	50uL	1	*******	E	10/26/2017 4:29:50 PM

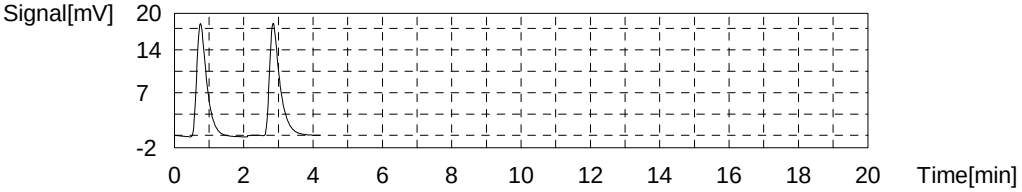
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 19.68



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	37.24	50uL	1	*******		10/26/2017 4:38:33 PM
2	38.23	50uL	1	*******		10/26/2017 4:40:49 PM

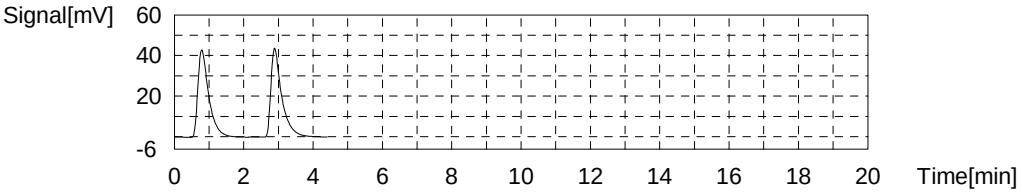
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 37.73



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	93.46	50uL	1	*******		10/26/2017 4:49:40 PM
2	94.46	50uL	1	*******		10/26/2017 4:52:05 PM

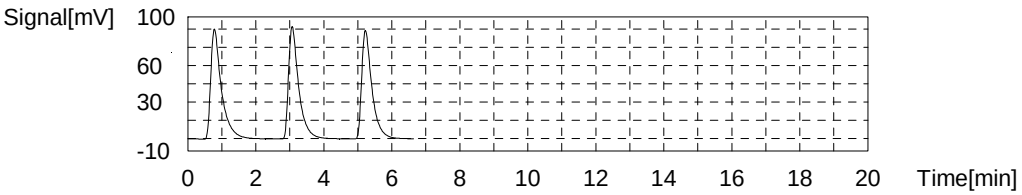
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 93.96



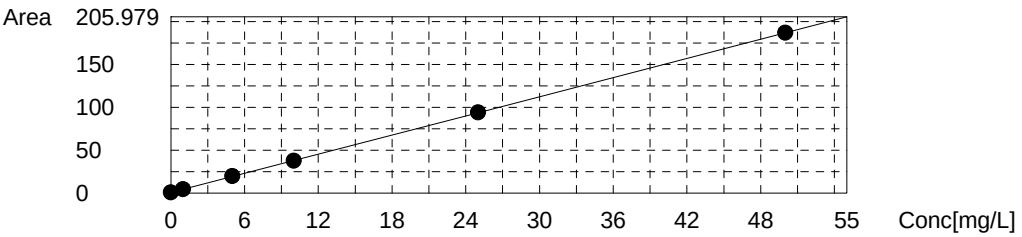
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.4	50uL	1	*******	E	10/26/2017 5:01:05 PM
2	190.3	50uL	1	*******		10/26/2017 5:03:25 PM
3	184.2	50uL	1	*******		10/26/2017 5:05:46 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 187.3



Slope: 3.732
Intercept 0.6289
r^2 1.0000
r 1.0000
Zero Shift No



Sample

Sample Name: ICV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

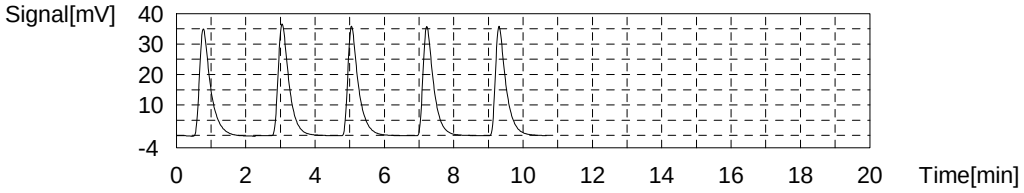
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.43mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	78.73	20.92mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:14:51 PM
2	79.89	21.24mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:17:02 PM
3	77.05	20.47mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:19:20 PM
4	75.64	20.10mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:21:36 PM
5	76.11	20.22mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:23:54 PM

Mean Area 76.88
Mean Conc. 20.43mg/L



Sample

Sample Name: ICB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

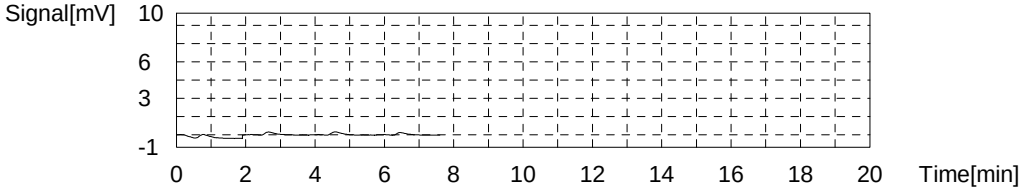
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.03636mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5390	-0.02409mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:32:24 PM
2	0.5030	-0.03374mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:34:28 PM
3	0.5472	-0.02189mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:36:32 PM
4	0.3836	-0.06572mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:38:36 PM

Mean Area 0.4932
Mean Conc. -0.03636mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

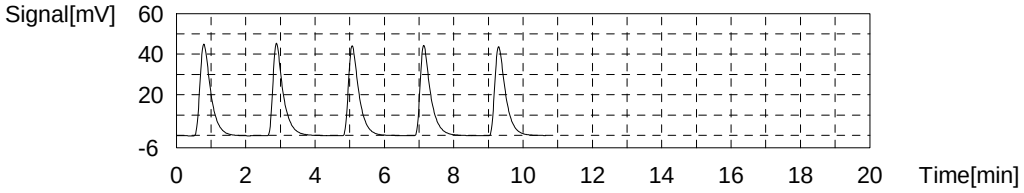
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.03mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.72	26.28mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:47:21 PM
2	94.67	25.20mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:49:42 PM
3	93.43	24.86mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:51:56 PM
4	93.34	24.84mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:54:14 PM
5	94.77	25.22mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:56:32 PM

Mean Area 94.05
Mean Conc. 25.03mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

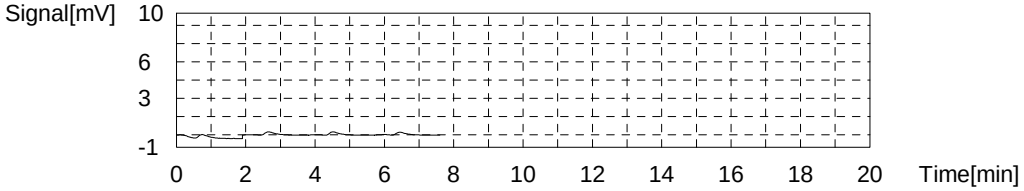
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.03877mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5060	-0.03293mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:05:03 PM
2	0.5260	-0.02757mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:07:06 PM
3	0.4727	-0.04185mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:09:10 PM
4	0.4321	-0.05273mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:11:14 PM

Mean Area 0.4842
Mean Conc. -0.03877mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

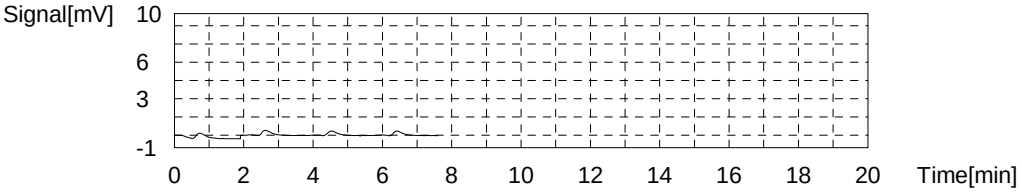
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02446mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7430	0.03056mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:19:46 PM
2	0.7794	0.04032mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:21:49 PM
3	0.7051	0.02041mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:23:53 PM
4	0.6533	0.00653mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:25:57 PM

Mean Area 0.7202
Mean Conc. 0.02446mg/L



Sample

Sample Name: 280-102482-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

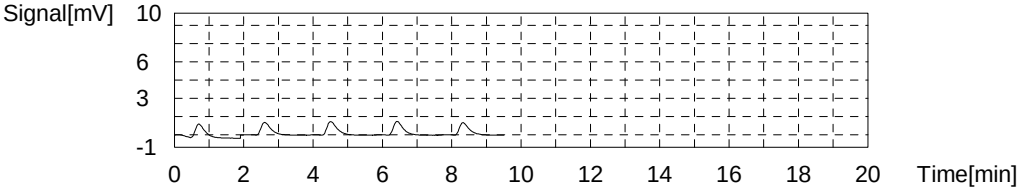
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3746mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.975	0.3606mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:34:29 PM
2	2.014	0.3711mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:36:33 PM
3	2.198	0.4204mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:38:37 PM
4	2.171	0.4132mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:40:41 PM
5	1.948	0.3534mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:42:45 PM

Mean Area 2.027
Mean Conc. 0.3746mg/L



Sample

Sample Name: 280-102482-b-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

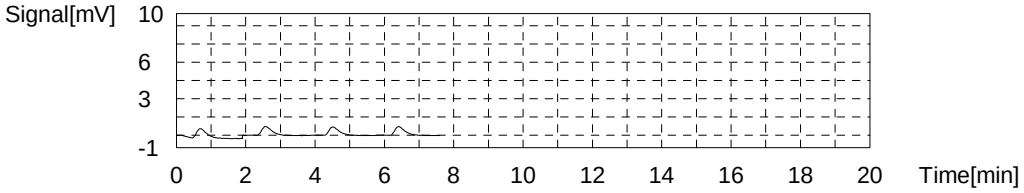
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2132mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.474	0.2264mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:51:15 PM
2	1.424	0.2130mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:53:19 PM
3	1.354	0.1943mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:55:23 PM
4	1.447	0.2192mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:57:27 PM

Mean Area 1.425
Mean Conc. 0.2132mg/L



Sample

Sample Name: 280-102482-d-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

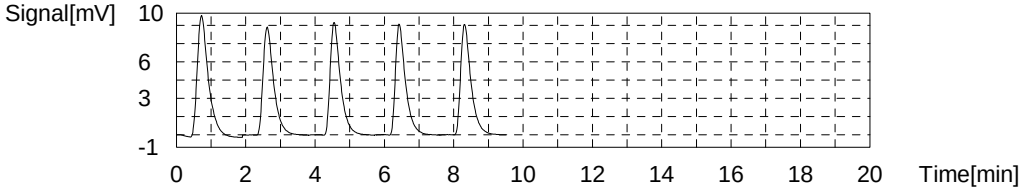
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.884mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.49	5.857mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:05:58 PM
2	18.98	4.917mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:08:02 PM
3	19.28	4.997mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:10:06 PM
4	18.43	4.769mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:12:10 PM
5	18.74	4.852mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:14:14 PM

Mean Area 18.86
Mean Conc. 4.884mg/L



Sample

Sample Name: 280-102482-l-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

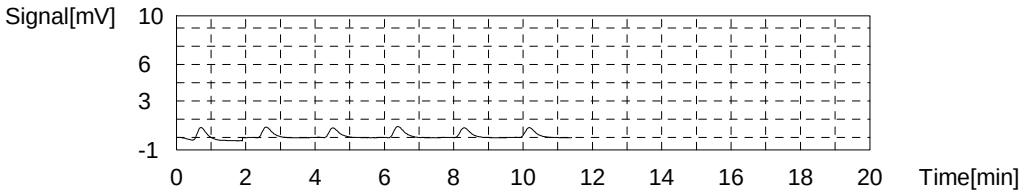
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2677mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.973	0.3601mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:22:44 PM
2	1.744	0.2988mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:24:48 PM
3	1.550	0.2468mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:26:52 PM
4	1.929	0.3483mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:28:56 PM
5	1.610	0.2628mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:31:00 PM
6	1.608	0.2623mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:33:04 PM

Mean Area 1.628
Mean Conc. 0.2677mg/L



Sample

Sample Name: MS 280-102482-I-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

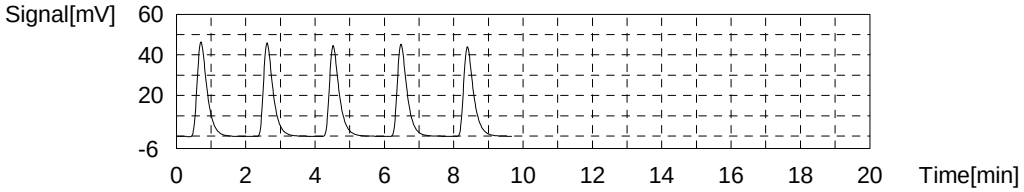
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.79mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	94.75	25.22mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:41:32 PM
2	89.07	23.69mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:43:35 PM
3	88.99	23.67mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:45:41 PM
4	90.17	23.99mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:47:47 PM
5	89.52	23.82mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:49:55 PM

Mean Area 89.44
Mean Conc. 23.79mg/L



Sample

Sample Name: MSD 280-102482-I-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

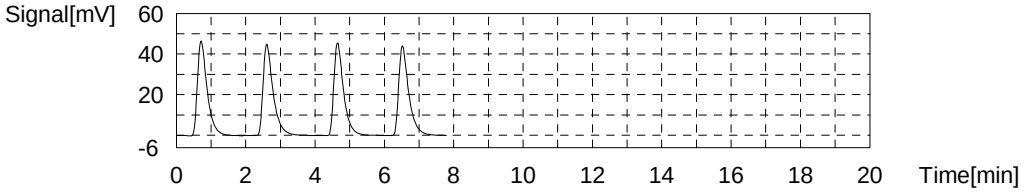
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.11mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	92.13	24.51mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:58:26 PM
2	91.33	24.30mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:00:38 PM
3	89.51	23.81mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:02:42 PM
4	89.51	23.81mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:04:48 PM

Mean Area 90.62
Mean Conc. 24.11mg/L



Sample

Sample Name: 280-102482-c-10
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

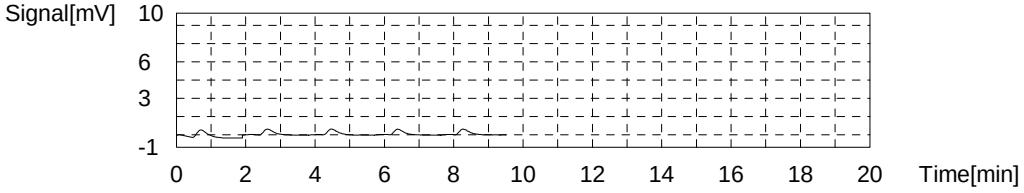
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06863mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.240	0.1637mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:13:19 PM
2	0.9173	0.07726mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:15:23 PM
3	0.9228	0.07874mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:17:27 PM
4	0.8188	0.05087mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:19:31 PM
5	0.8814	0.06764mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:21:35 PM

Mean Area 0.8851
Mean Conc. 0.06863mg/L



Sample

Sample Name: 280-102482-b-11
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

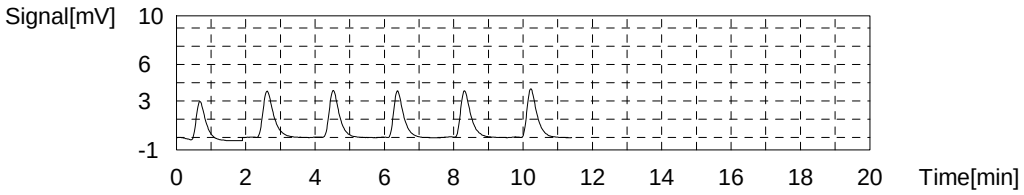
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.939mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.809	1.388mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:30:05 PM
2	8.073	1.994mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:32:09 PM
3	7.791	1.919mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:34:13 PM
4	7.487	1.837mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:36:17 PM
5	7.647	1.880mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:38:21 PM
6	7.954	1.963mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:40:25 PM

Mean Area 7.866
Mean Conc. 1.939mg/L



Sample

Sample Name: 280-102482-d-13
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

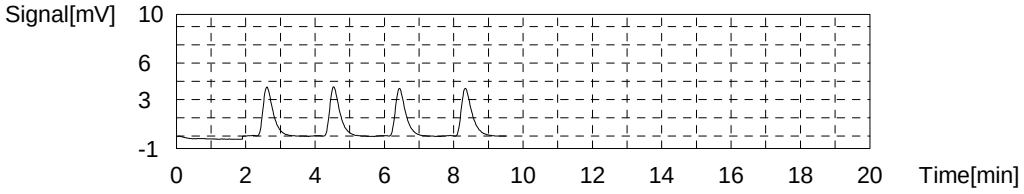
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.010mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	-0.1685mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:48:50 PM
2	8.051	1.989mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:50:54 PM
3	8.166	2.019mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:52:58 PM
4	8.051	1.989mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:55:02 PM
5	8.254	2.043mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:57:06 PM

Mean Area 8.130
Mean Conc. 2.010mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

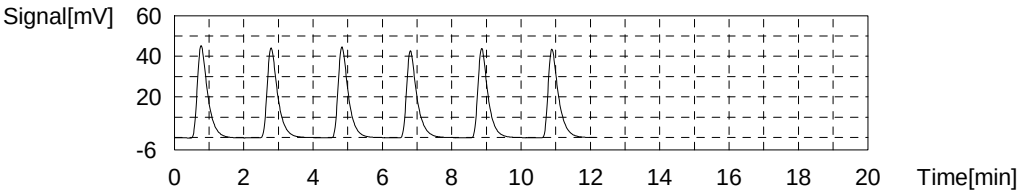
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.14mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	95.05	25.30mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:05:44 PM
2	94.30	25.10mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:07:57 PM
3	92.22	24.54mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:10:06 PM
4	89.62	23.84mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:12:19 PM
5	89.39	23.78mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:14:30 PM
6	91.63	24.38mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:16:41 PM

Mean Area 90.72
Mean Conc. 24.14mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

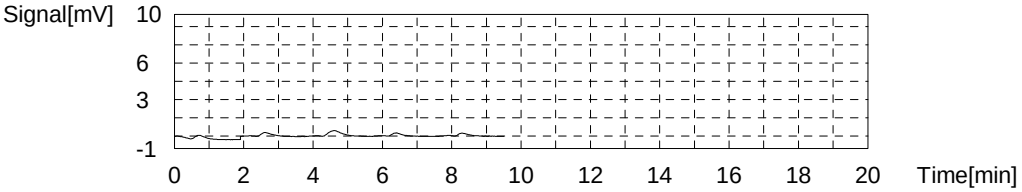
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02706mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5756	-0.01428mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:25:06 PM
2	0.6371	0.00219mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:27:10 PM
3	1.150	0.1396mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:29:14 PM
4	0.4680	-0.04311mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:31:18 PM
5	0.4310	-0.05303mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:33:22 PM

Mean Area 0.5279
Mean Conc. -0.02706mg/L



Sample

Sample Name: 280-102482-c-15
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

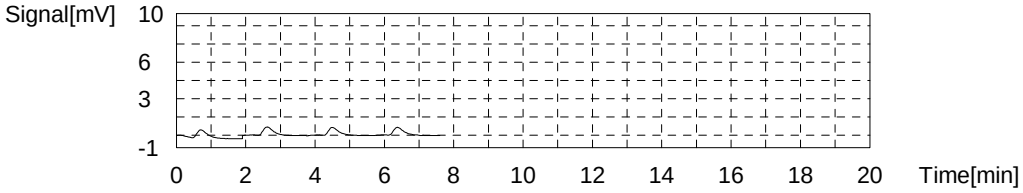
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1824mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.268	0.1712mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:41:52 PM
2	1.339	0.1902mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:43:56 PM
3	1.311	0.1827mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:46:00 PM
4	1.321	0.1854mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:48:04 PM

Mean Area 1.310
Mean Conc. 0.1824mg/L



Sample

Sample Name: 280-102482-d-17
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

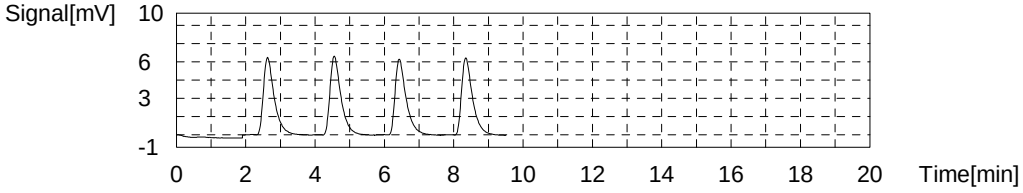
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.575mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	-0.1685mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:56:35 PM
2	13.84	3.539mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:58:39 PM
3	14.23	3.644mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:00:43 PM
4	13.87	3.548mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:02:47 PM
5	13.95	3.569mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:04:51 PM

Mean Area 13.97
Mean Conc. 3.575mg/L



Sample

Sample Name: 280-102482-d-19
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

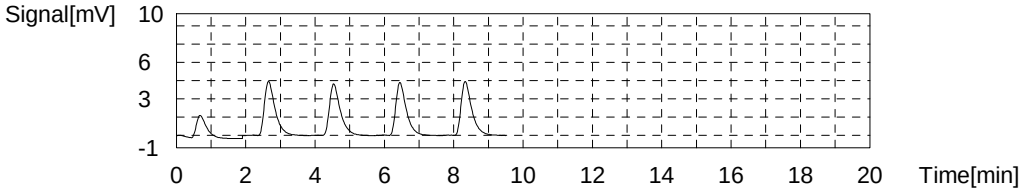
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.321mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.620	0.8014mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:13:21 PM
2	9.418	2.355mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:15:25 PM
3	9.219	2.301mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:17:29 PM
4	9.142	2.281mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:19:33 PM
5	9.383	2.345mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:21:37 PM

Mean Area 9.291
Mean Conc. 2.321mg/L



Sample

Sample Name: MS 280-102482-d-19
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

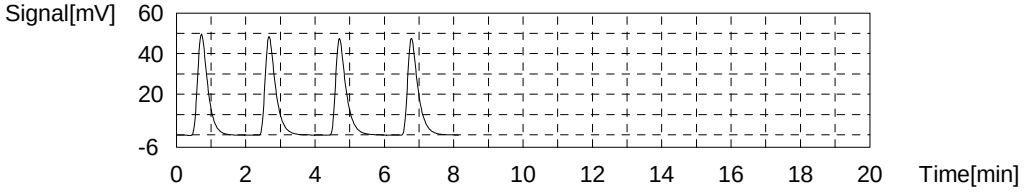
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.00mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	102.9	27.40mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:30:10 PM
2	102.1	27.19mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:32:22 PM
3	100.2	26.68mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:34:36 PM
4	100.4	26.73mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:36:51 PM

Mean Area 101.4
Mean Conc. 27.00mg/L



Sample

Sample Name: MSD 280-102482-d-19
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

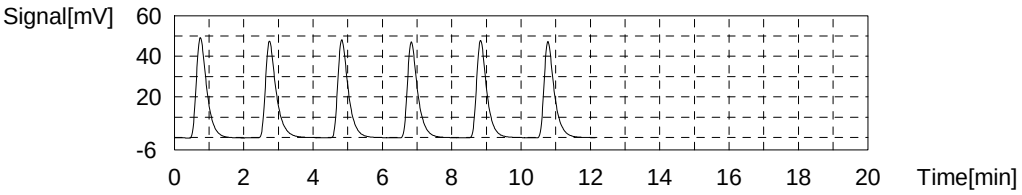
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.45mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.2	28.02mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:45:29 PM
2	103.5	27.56mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:47:44 PM
3	102.1	27.19mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:49:55 PM
4	98.65	26.26mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:52:06 PM
5	98.44	26.21mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:54:13 PM
6	98.29	26.17mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:56:26 PM

Mean Area 99.37
Mean Conc. 26.45mg/L



Sample

Sample Name: 280-102482-d-21
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

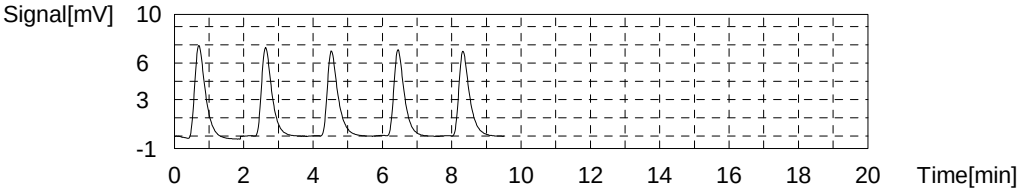
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.842mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.60	4.279mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:04:51 PM
2	15.15	3.890mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:06:55 PM
3	15.08	3.872mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:08:59 PM
4	14.77	3.789mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:11:03 PM
5	14.87	3.815mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:13:07 PM

Mean Area 14.97
Mean Conc. 3.842mg/L



Sample

Sample Name: 280-102516-a-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

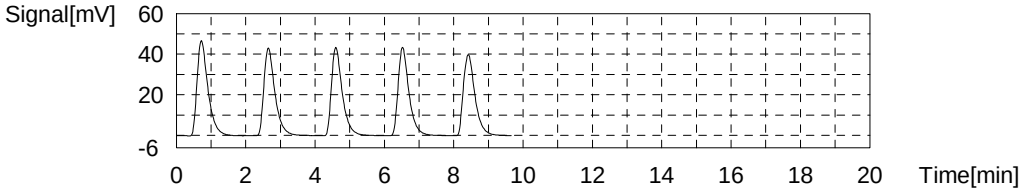
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:50.36mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	104.0	55.39mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:21:39 PM
2	95.60	50.89mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:23:46 PM
3	94.72	50.42mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:25:52 PM
4	94.78	50.45mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:27:58 PM
5	93.38	49.70mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:30:02 PM

Mean Area 94.62
Mean Conc. 50.36mg/L



Sample

Sample Name: 280-102702-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

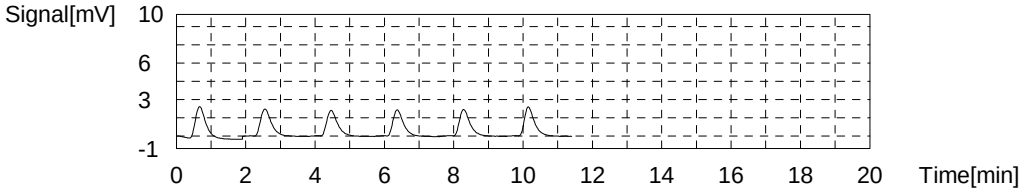
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.035mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.287	1.248mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:38:32 PM
2	4.648	1.077mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:40:36 PM
3	4.488	1.034mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:42:40 PM
4	4.416	1.015mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:44:44 PM
5	4.420	1.016mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:46:48 PM
6	4.754	1.105mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:48:52 PM

Mean Area 4.493
Mean Conc. 1.035mg/L



Sample

Sample Name: 280-102702-b-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

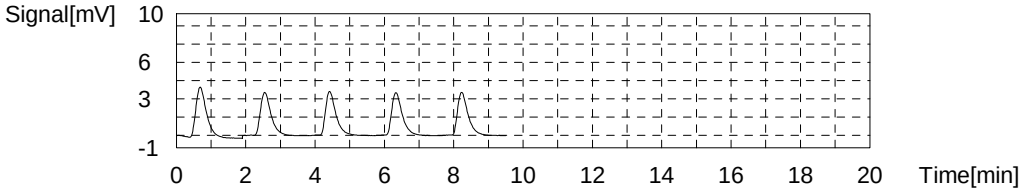
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.807mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.772	2.182mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:57:17 PM
2	7.422	1.820mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:59:21 PM
3	7.446	1.826mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:01:25 AM
4	7.405	1.815mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:03:29 AM
5	7.220	1.766mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:05:33 AM

Mean Area 7.373
Mean Conc. 1.807mg/L



Sample

Sample Name: 280-102702-a-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

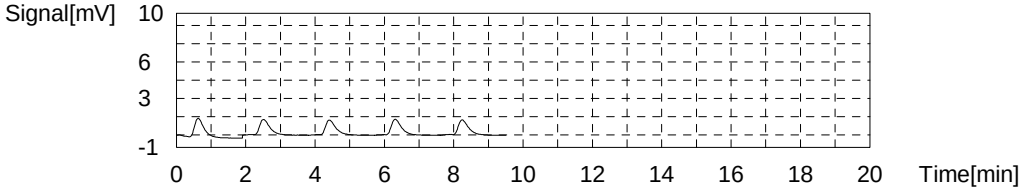
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4886mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.813	0.5852mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:14:03 AM
2	2.512	0.5045mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:16:07 AM
3	2.345	0.4598mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:18:11 AM
4	2.510	0.5040mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:20:15 AM
5	2.444	0.4863mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:22:19 AM

Mean Area 2.453
Mean Conc. 0.4886mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

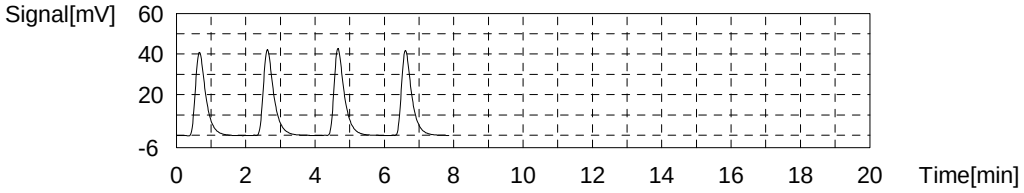
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.43mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	86.77	23.08mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:30:51 AM
2	89.72	23.87mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:33:02 AM
3	89.20	23.73mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:35:11 AM
4	86.61	23.04mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:37:16 AM

Mean Area 88.08
Mean Conc. 23.43mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

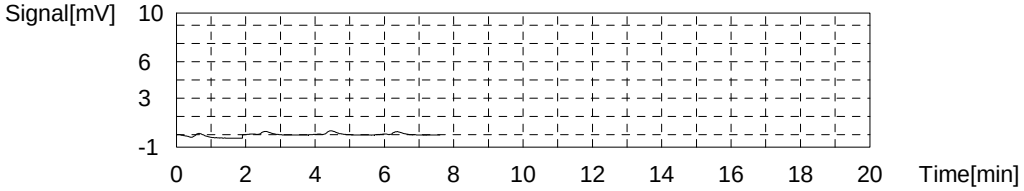
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.03623mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5465	-0.02208mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:45:47 AM
2	0.4462	-0.04895mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:47:51 AM
3	0.5865	-0.01136mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:49:55 AM
4	0.3956	-0.06251mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:51:59 AM

Mean Area 0.4937
Mean Conc. -0.03623mg/L



Sample

Sample Name: 280-102702-a-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

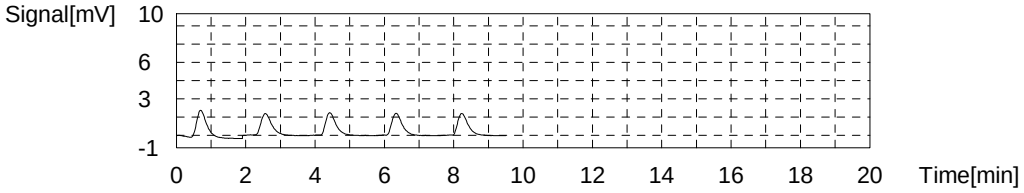
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8261mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.442	1.022mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:00:30 AM
2	3.758	0.8383mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:02:34 AM
3	3.763	0.8397mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:04:38 AM
4	3.740	0.8335mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:06:42 AM
5	3.588	0.7928mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:08:46 AM

Mean Area 3.712
Mean Conc. 0.8261mg/L



Sample

Sample Name: 280-102702-b-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

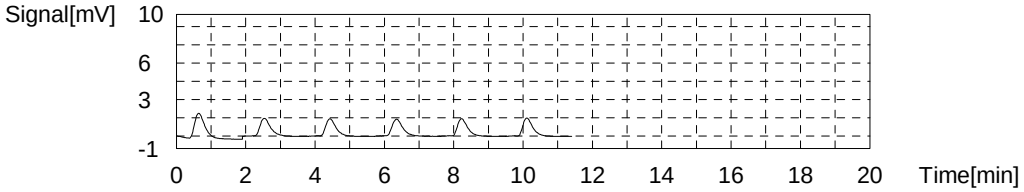
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5998mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.172	0.9493mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:17:16 AM
2	3.061	0.6516mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:19:20 AM
3	2.840	0.5924mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:21:24 AM
4	2.891	0.6061mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:23:28 AM
5	2.827	0.5889mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:25:32 AM
6	2.913	0.6119mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:27:36 AM

Mean Area 2.868
Mean Conc. 0.5998mg/L



Sample

Sample Name: 280-102702-a-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

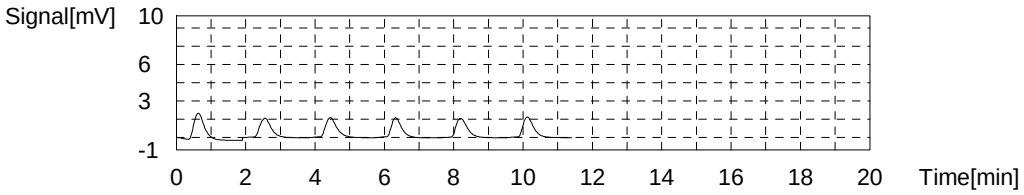
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7679mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.439	1.021mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:36:01 AM
2	3.451	0.7561mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:38:05 AM
3	3.534	0.7783mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:40:09 AM
4	3.156	0.6770mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:42:13 AM
5	3.513	0.7727mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:44:17 AM
6	3.482	0.7644mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:46:21 AM

Mean Area 3.495
Mean Conc. 0.7679mg/L



Sample

Sample Name: 280-102711-a-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

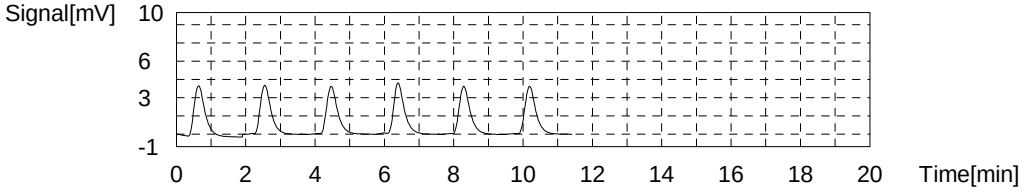
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.078mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.934	2.225mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:55:06 AM
2	8.481	2.104mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:57:10 AM
3	8.398	2.081mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:59:14 AM
4	9.114	2.273mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:01:18 AM
5	8.336	2.065mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:03:22 AM
6	8.318	2.060mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:05:26 AM

Mean Area 8.383
Mean Conc. 2.078mg/L



Sample

Sample Name: 280-102529-b-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

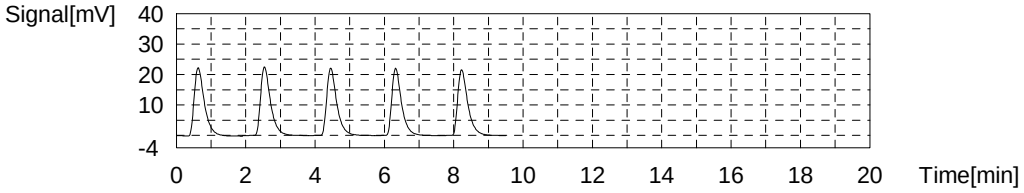
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.90mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	45.95	12.14mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:13:52 AM
2	45.08	11.91mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:15:56 AM
3	44.98	11.88mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:18:00 AM
4	43.32	11.44mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:20:04 AM
5	44.10	11.65mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:22:08 AM

Mean Area 45.03
Mean Conc. 11.90mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

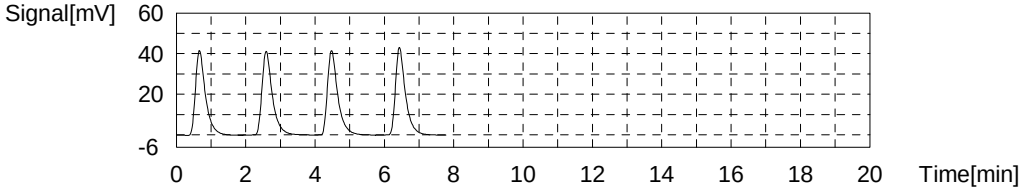
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:22.88mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	84.29	22.41mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:30:40 AM
2	86.12	22.90mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:32:44 AM
3	86.98	23.13mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:34:49 AM
4	86.75	23.07mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:37:01 AM

Mean Area 86.04
Mean Conc. 22.88mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

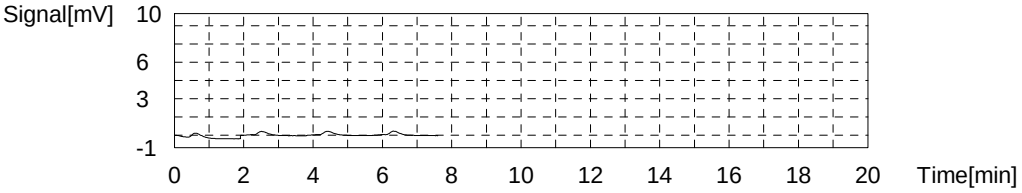
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02205mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6028	-0.00700mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:45:33 AM
2	0.5040	-0.03347mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:47:37 AM
3	0.5518	-0.02066mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:49:41 AM
4	0.5279	-0.02706mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:51:45 AM

Mean Area 0.5466
Mean Conc. -0.02205mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

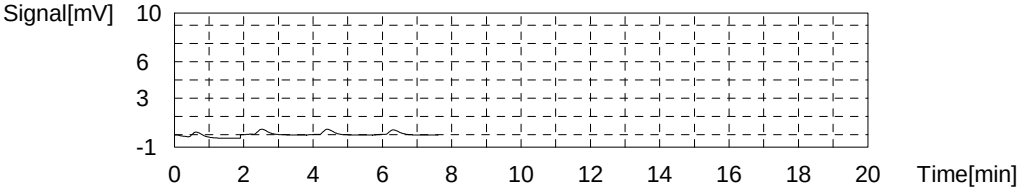
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03894mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7045	0.02025mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:00:17 AM
2	0.7884	0.04273mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:02:21 AM
3	0.8450	0.05789mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:04:25 AM
4	0.7592	0.03491mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:06:29 AM

Mean Area 0.7743
Mean Conc. 0.03894mg/L



Sample

Sample Name: 280-102529-b-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

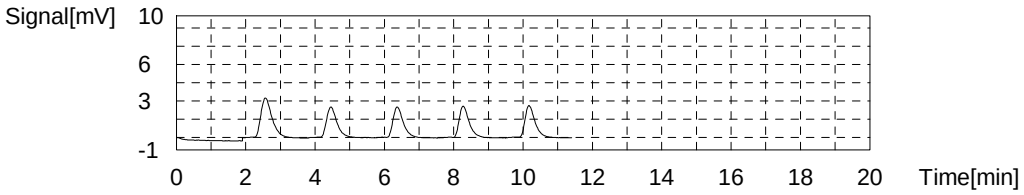
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.198mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	-0.1685mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:15:01 AM
2	7.248	1.773mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:17:05 AM
3	5.146	1.210mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:19:09 AM
4	5.134	1.207mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:21:13 AM
5	4.971	1.163mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:23:17 AM
6	5.158	1.213mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:25:21 AM

Mean Area 5.102
Mean Conc. 1.198mg/L



Sample

Sample Name: 280-102529-b-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

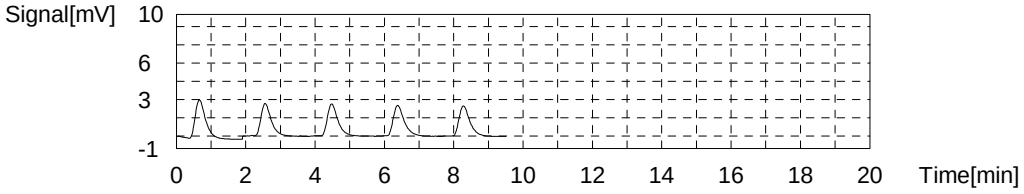
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.294mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.402	1.547mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:33:46 AM
2	5.451	1.292mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:35:50 AM
3	5.514	1.309mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:37:54 AM
4	5.512	1.308mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:39:58 AM
5	5.354	1.266mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:42:02 AM

Mean Area 5.458
Mean Conc. 1.294mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

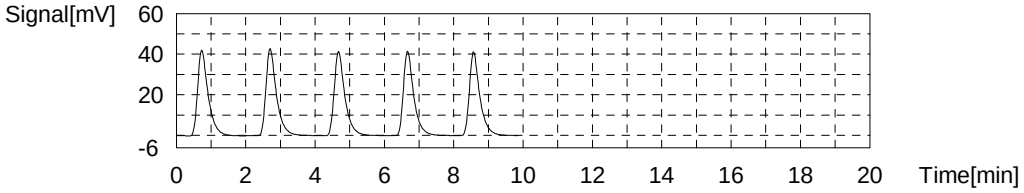
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.38mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.62	23.84mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:50:39 AM
2	90.66	24.12mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:52:47 AM
3	88.84	23.63mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:54:57 AM
4	86.26	22.94mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:57:01 AM
5	86.83	23.09mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:59:10 AM

Mean Area 87.89
Mean Conc. 23.38mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

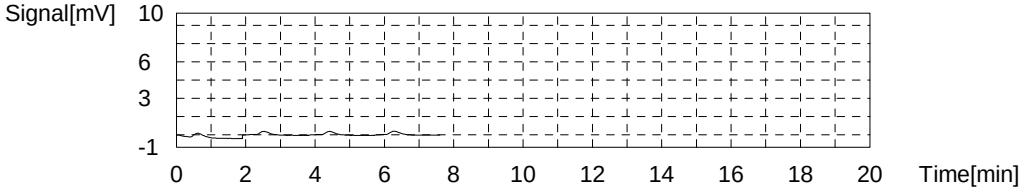
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.03064mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5569	-0.01929mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:07:41 AM
2	0.4871	-0.03800mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:09:45 AM
3	0.4933	-0.03633mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:11:49 AM
4	0.5209	-0.02894mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:13:53 AM

Mean Area 0.5146
Mean Conc. -0.03064mg/L



Sample

Sample Name: 280-102529-b-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

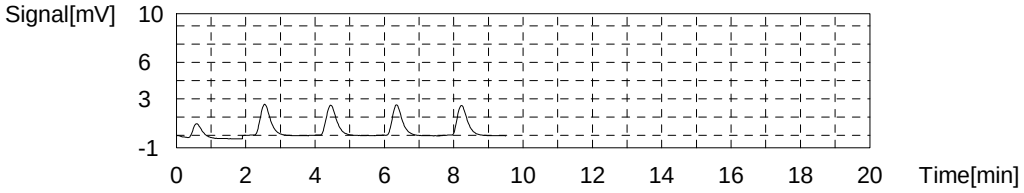
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.174mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.028	0.3748mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:22:25 AM
2	5.085	1.194mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:24:29 AM
3	5.061	1.187mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:26:33 AM
4	4.937	1.154mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:28:37 AM
5	4.954	1.159mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:30:41 AM

Mean Area 5.009
Mean Conc. 1.174mg/L



Sample

Sample Name: 320-32498-i-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

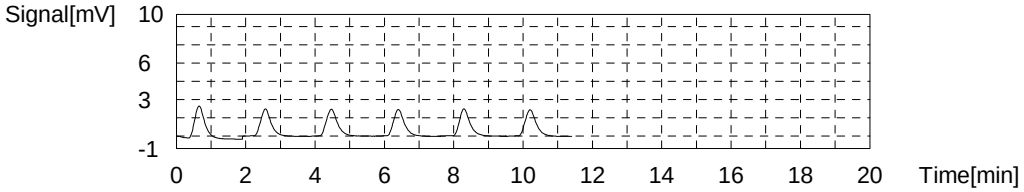
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.064mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.234	1.234mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:39:12 AM
2	4.566	1.055mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:41:16 AM
3	4.866	1.135mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:43:20 AM
4	4.665	1.081mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:45:24 AM
5	4.479	1.032mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:47:28 AM
6	4.695	1.089mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:49:32 AM

Mean Area 4.601
Mean Conc. 1.064mg/L



Sample

Sample Name: 320-32498-i-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

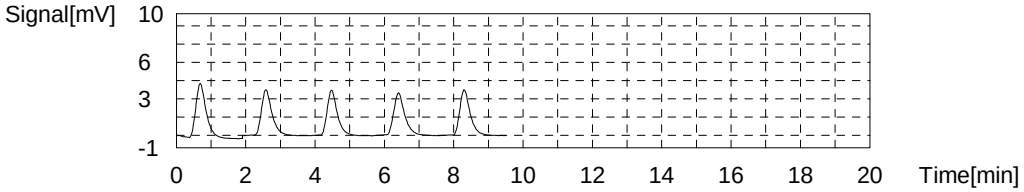
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.886mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.143	2.281mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:57:57 AM
2	7.814	1.925mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:00:01 AM
3	7.559	1.857mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:02:05 AM
4	7.607	1.870mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:04:09 AM
5	7.690	1.892mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:06:13 AM

Mean Area 7.668
Mean Conc. 1.886mg/L



Sample

Sample Name: 320-32498-i-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

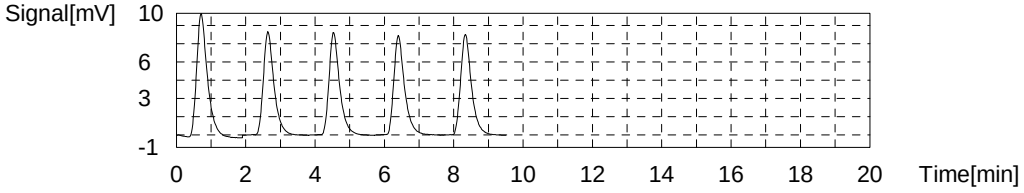
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.614mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.01	5.728mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:14:44 AM
2	18.01	4.657mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:16:48 AM
3	17.94	4.638mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:18:52 AM
4	17.47	4.512mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:20:56 AM
5	17.98	4.649mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:23:00 AM

Mean Area 17.85
Mean Conc. 4.614mg/L



Sample

Sample Name: 320-32498-i-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

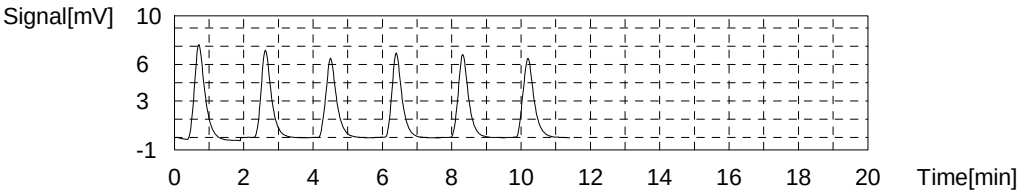
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.639mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.59	4.276mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:31:31 AM
2	14.76	3.786mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:33:35 AM
3	14.13	3.617mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:35:39 AM
4	14.07	3.601mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:37:43 AM
5	14.18	3.631mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:39:47 AM
6	14.46	3.706mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:41:51 AM

Mean Area 14.21
Mean Conc. 3.639mg/L



Sample

Sample Name: 320-32498-i-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

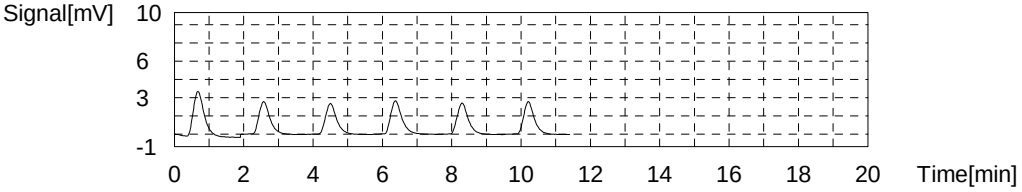
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.351mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.961	1.964mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:50:16 AM
2	5.840	1.396mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:52:20 AM
3	5.594	1.330mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:54:24 AM
4	6.114	1.470mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:56:28 AM
5	5.614	1.336mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:58:32 AM
6	5.641	1.343mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:00:36 AM

Mean Area 5.672
Mean Conc. 1.351mg/L



Sample

Sample Name: 280-102152-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

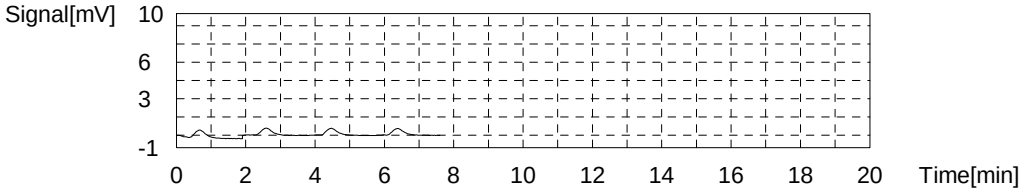
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1536mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.297	0.1790mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:09:01 AM
2	1.180	0.1476mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:11:05 AM
3	1.194	0.1514mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:13:09 AM
4	1.138	0.1364mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:15:13 AM

Mean Area 1.202
Mean Conc. 0.1536mg/L



Sample

Sample Name: MS 280-102152-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

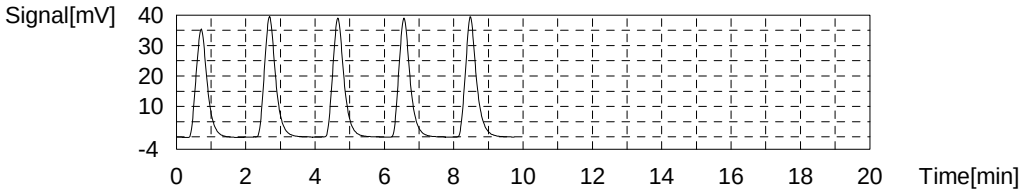
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.53mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	80.61	21.43mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:23:48 AM
2	89.13	23.71mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:25:57 AM
3	88.42	23.52mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:28:02 AM
4	87.97	23.40mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:30:06 AM
5	88.24	23.47mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:32:15 AM

Mean Area 88.44
Mean Conc. 23.53mg/L



Sample

Sample Name: MSD 280-102152-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

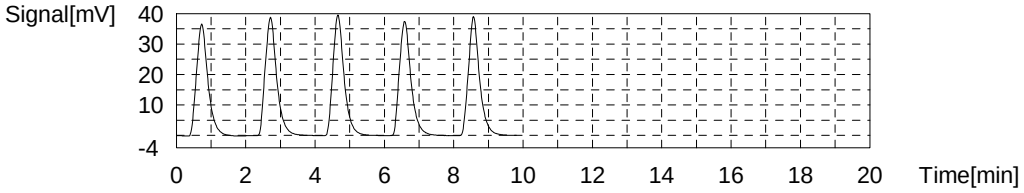
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.63mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	85.21	22.66mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:40:52 AM
2	90.19	23.99mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:42:58 AM
3	89.33	23.76mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:45:04 AM
4	87.73	23.34mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:47:13 AM
5	88.00	23.41mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:49:20 AM

Mean Area 88.81
Mean Conc. 23.63mg/L



Sample

Sample Name: 280-102152-b-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

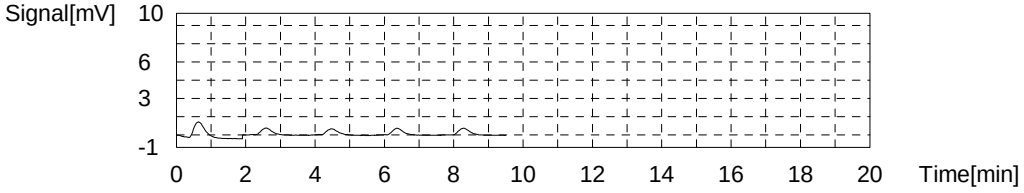
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1387mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.720	0.5602mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:57:51 AM
2	1.159	0.1420mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:59:55 AM
3	1.100	0.1262mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:01:59 AM
4	1.111	0.1292mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:04:03 AM
5	1.216	0.1573mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:06:07 AM

Mean Area 1.147
Mean Conc. 0.1387mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

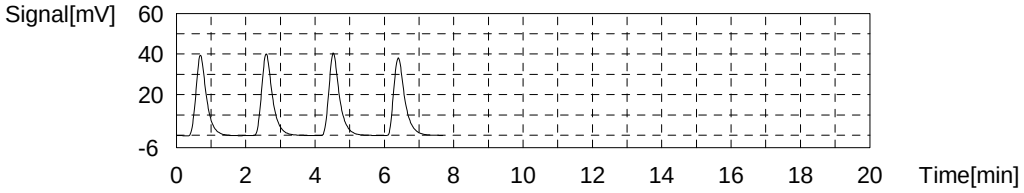
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:22.93mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	84.25	22.40mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:14:38 AM
2	87.67	23.32mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:16:45 AM
3	87.01	23.14mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:18:49 AM
4	85.94	22.86mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:20:55 AM

Mean Area 86.22
Mean Conc. 22.93mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

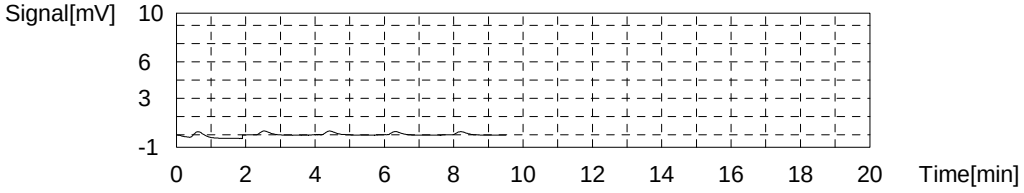
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02467mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8715	0.06499mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:29:27 AM
2	0.5878	-0.01102mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:31:31 AM
3	0.5532	-0.02029mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:33:35 AM
4	0.5080	-0.03240mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:35:39 AM
5	0.4983	-0.03499mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:37:43 AM

Mean Area 0.5368
Mean Conc. -0.02467mg/L



Sample

Sample Name: 280-102152-b-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

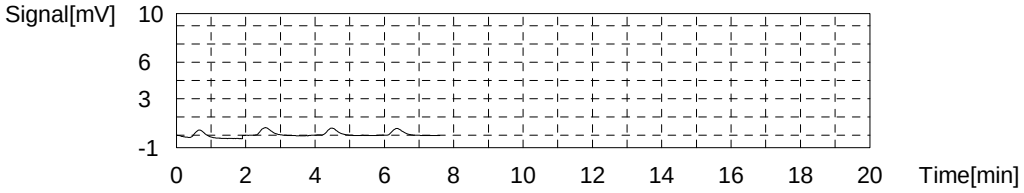
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1620mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.209	0.1554mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:46:14 AM
2	1.366	0.1975mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:48:18 AM
3	1.194	0.1514mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:50:22 AM
4	1.165	0.1436mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:52:26 AM

Mean Area 1.234
Mean Conc. 0.1620mg/L



Sample

Sample Name: 280-102152-b-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

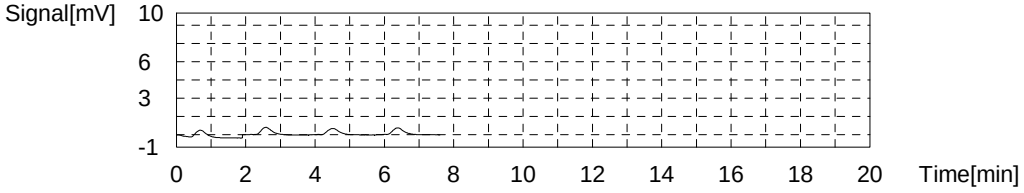
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1447mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.136	0.1359mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:00:58 AM
2	1.235	0.1624mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:03:02 AM
3	1.137	0.1361mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:05:06 AM
4	1.168	0.1444mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:07:10 AM

Mean Area 1.169
Mean Conc. 0.1447mg/L



Sample

Sample Name: 280-102152-b-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

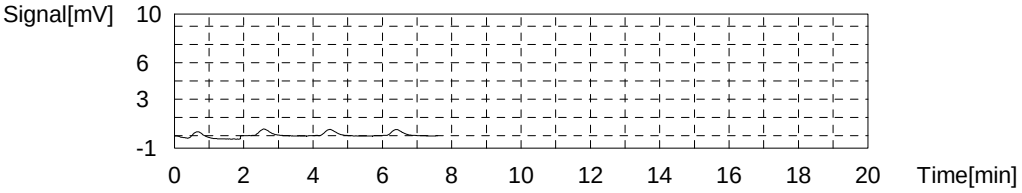
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1267mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.068	0.1176mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:15:43 AM
2	1.150	0.1396mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:17:47 AM
3	1.134	0.1353mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:19:51 AM
4	1.056	0.1144mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:21:55 AM

Mean Area 1.102
Mean Conc. 0.1267mg/L



Sample

Sample Name: 280-102152-b-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

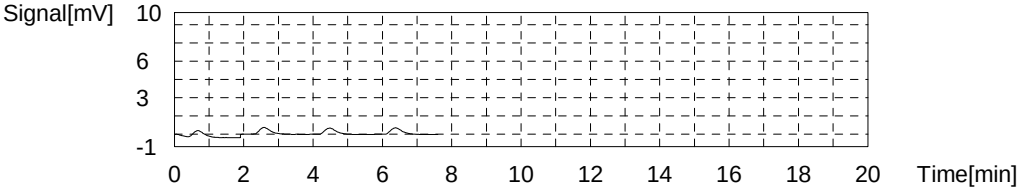
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1346mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.047	0.1120mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:30:28 AM
2	1.158	0.1418mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:32:32 AM
3	1.141	0.1372mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:34:36 AM
4	1.179	0.1474mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:36:40 AM

Mean Area 1.131
Mean Conc. 0.1346mg/L



Sample

Sample Name: 280-102152-b-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

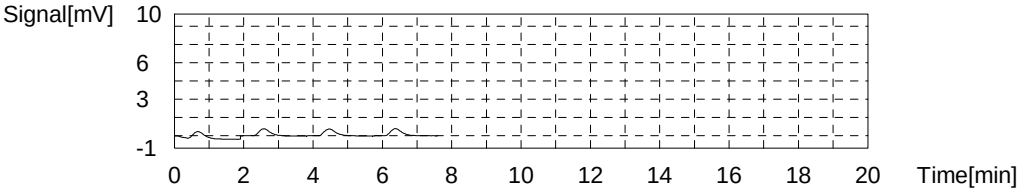
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1509mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.139	0.1367mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:45:13 AM
2	1.224	0.1594mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:47:17 AM
3	1.192	0.1509mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:49:21 AM
4	1.214	0.1568mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:51:25 AM

Mean Area 1.192
Mean Conc. 0.1509mg/L



Sample

Sample Name: 280-102152-b-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

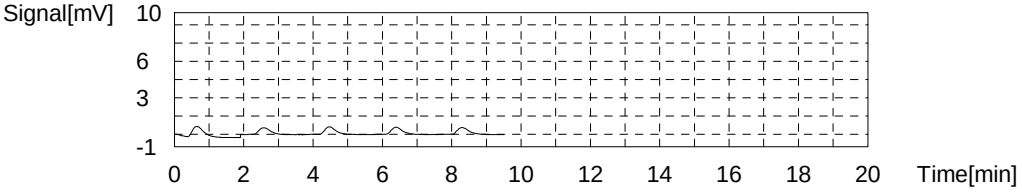
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1704mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.850	0.3271mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:59:58 AM
2	1.238	0.1632mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:02:02 AM
3	1.313	0.1833mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:04:06 AM
4	1.297	0.1790mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:06:10 AM
5	1.212	0.1562mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:08:14 AM

Mean Area 1.265
Mean Conc. 0.1704mg/L



Sample

Sample Name: 280-102152-b-10
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

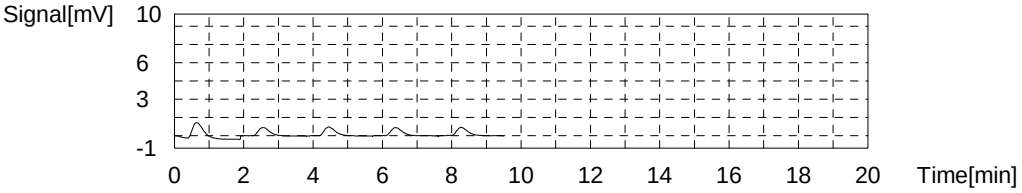
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2327mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.752	0.5688mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:16:46 AM
2	1.551	0.2470mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:18:50 AM
3	1.557	0.2486mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:20:54 AM
4	1.483	0.2288mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:22:58 AM
5	1.399	0.2063mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:25:02 AM

Mean Area 1.498
Mean Conc. 0.2327mg/L



Sample

Sample Name: 280-102152-b-11
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

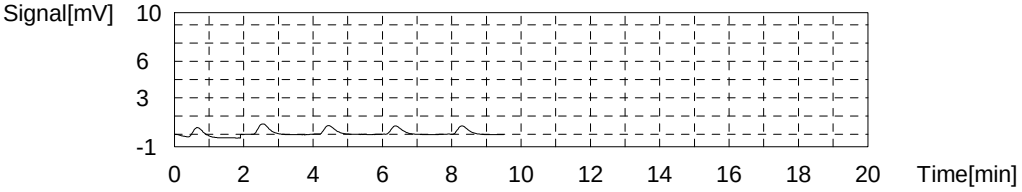
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2351mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.569	0.2519mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:33:34 AM
2	1.918	0.3454mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:35:38 AM
3	1.520	0.2387mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:37:42 AM
4	1.495	0.2320mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:39:46 AM
5	1.442	0.2178mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:41:50 AM

Mean Area 1.507
Mean Conc. 0.2351mg/L



Sample

Sample Name: 280-102152-b-12
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

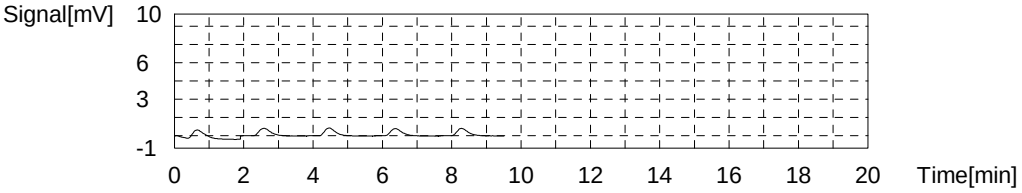
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1870mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.573	0.2529mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:50:22 AM
2	1.371	0.1988mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:52:26 AM
3	1.381	0.2015mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:54:30 AM
4	1.253	0.1672mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:56:34 AM
5	1.302	0.1803mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:58:38 AM

Mean Area 1.327
Mean Conc. 0.1870mg/L



Sample

Sample Name: 280-102152-f-13
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

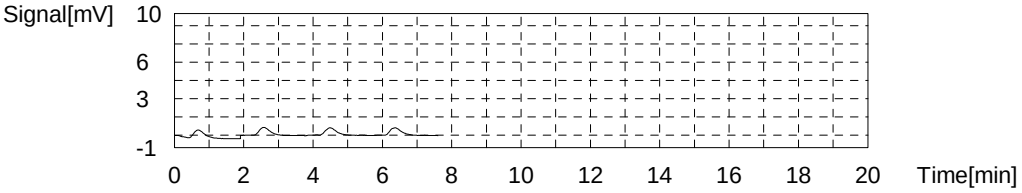
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1880mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.346	0.1921mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:07:10 AM
2	1.347	0.1924mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:09:14 AM
3	1.252	0.1669mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:11:18 AM
4	1.378	0.2007mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:13:22 AM

Mean Area 1.331
Mean Conc. 0.1880mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

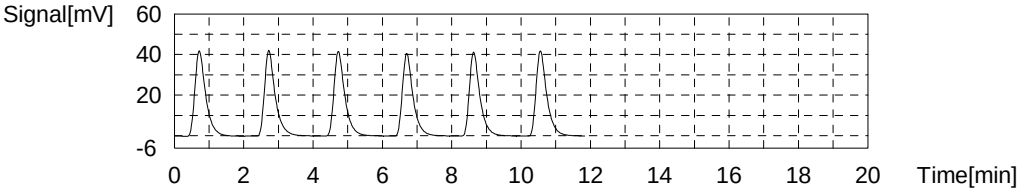
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.24mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.93	24.46mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:22:03 AM
2	90.97	24.20mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:24:11 AM
3	90.72	24.14mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:26:22 AM
4	87.20	23.19mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:28:27 AM
5	87.72	23.33mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:30:32 AM
6	90.79	24.16mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:32:41 AM

Mean Area 91.10
Mean Conc. 24.24mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

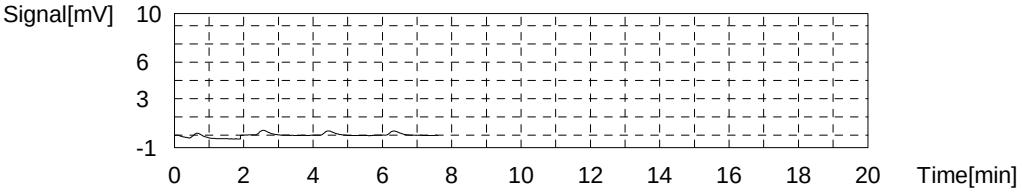
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02436mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7244	0.02558mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:41:07 AM
2	0.7514	0.03282mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:43:11 AM
3	0.7312	0.02740mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:45:15 AM
4	0.6724	0.01165mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:47:19 AM

Mean Area 0.7198
Mean Conc. 0.02436mg/L



Sample

Sample Name: MS 280-102152-f-13
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

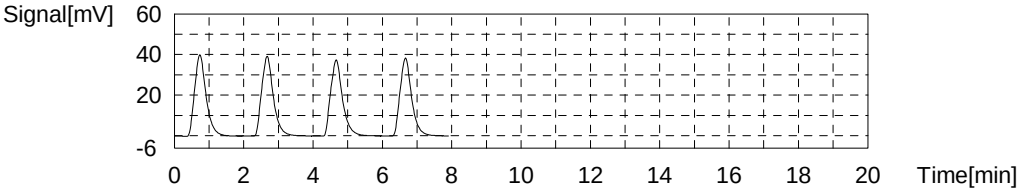
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.32mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	93.10	24.77mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:55:55 AM
2	92.63	24.65mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:58:05 AM
3	90.22	24.00mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:00:14 AM
4	89.59	23.83mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:02:22 AM

Mean Area 91.39
Mean Conc. 24.32mg/L



Sample

Sample Name: MSD 280-102152-f-13
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

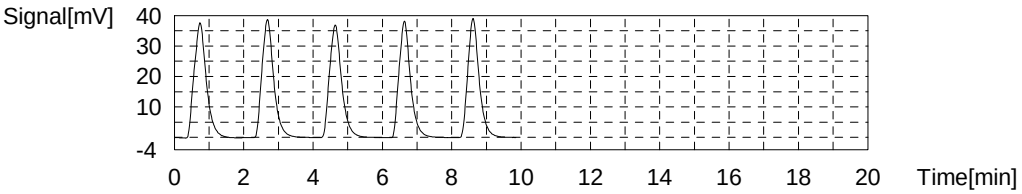
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.95mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	93.65	24.92mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:10:58 AM
2	91.50	24.35mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:13:04 AM
3	90.84	24.17mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:15:16 AM
4	88.18	23.46mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:17:23 AM
5	89.50	23.81mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:19:32 AM

Mean Area 90.00
Mean Conc. 23.95mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

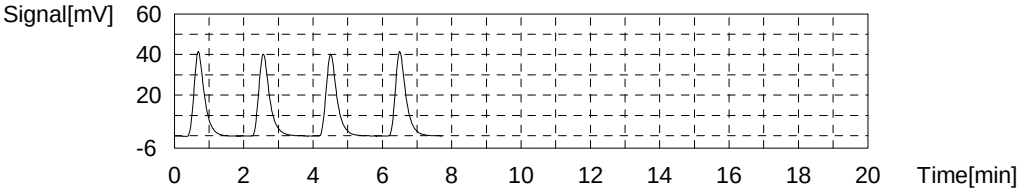
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.35mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.31	23.22mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:28:04 AM
2	87.87	23.37mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:30:10 AM
3	87.91	23.38mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:32:19 AM
4	87.99	23.41mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:34:23 AM

Mean Area 87.77
Mean Conc. 23.35mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

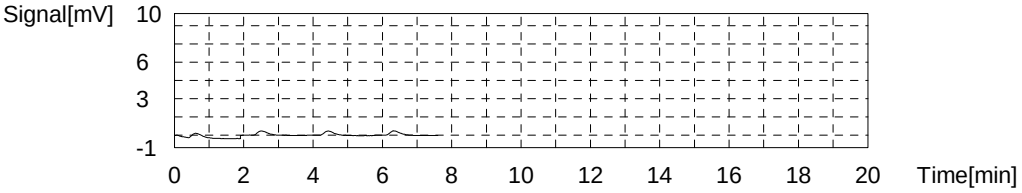
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00649mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5989	-0.00804mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:42:56 AM
2	0.6963	0.01805mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:45:00 AM
3	0.6425	0.00364mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:47:04 AM
4	0.6748	0.01229mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:49:08 AM

Mean Area 0.6531
Mean Conc. 0.00649mg/L



TOC-V Cal Curve Information
C:¥TOC3201¥CalCurves¥TOC3.2017_10_26_15_52_21.cal

Date of Creation 5:05:46 PM 10/26/2017
User cj
System TOC-V cpn 3

Cal. Curve

Sample Name: CAL 110716
Sample ID: Untitled
Object ID 0A-103108-04335027-133C91225CDF-0000
Cal. Curve: TOC3.2017_10_26_15_52_21.cal
Status Completed
Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.6477	50uL	1	*******	E	10/26/2017 4:00:15 P
2	0.4323	50uL	1	*******		10/26/2017 4:02:18 P
3	0.5035	50uL	1	*******		10/26/2017 4:04:22 P

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 0.4679
SD Area 0.05035
CV Area 10.76%
Vial 69

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.513	50uL	1	*******	E	10/26/2017 4:12:53 P
2	4.292	50uL	1	*******		10/26/2017 4:14:57 P
3	4.393	50uL	1	*******		10/26/2017 4:17:01 P

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 4.342
SD Area 0.07142
CV Area 1.64%
Vial 70

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	20.06	50uL	1	*******		10/26/2017 4:25:36 P
2	19.29	50uL	1	*******		10/26/2017 4:27:46 P
3	18.48	50uL	1	*******	E	10/26/2017 4:29:50 P

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 19.68
SD Area 0.5445
CV Area 2.77%
Vial 71

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	37.24	50uL	1	*******		10/26/2017 4:38:33 P
2	38.23	50uL	1	*******		10/26/2017 4:40:49 P

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 37.73
SD Area 0.7000
CV Area 1.86%
Vial 72

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	93.46	50uL	1	*******		10/26/2017 4:49:40 P
2	94.46	50uL	1	*******		10/26/2017 4:52:05 P

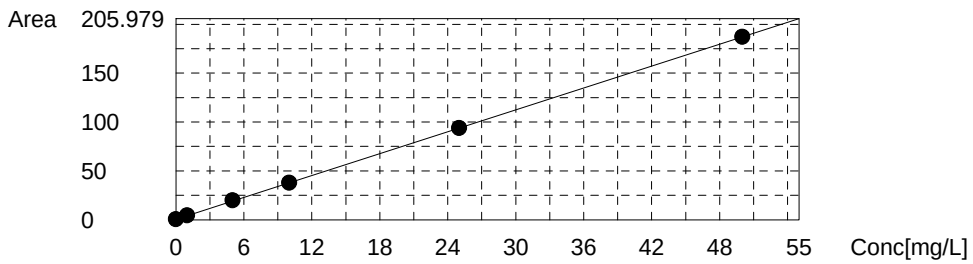
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 93.96
SD Area 0.7071
CV Area 0.75%
Vial 73

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.4	50uL	1	*******	E	10/26/2017 5:01:05 P
2	190.3	50uL	1	*******		10/26/2017 5:03:25 P
3	184.2	50uL	1	*******		10/26/2017 5:05:46 P

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 187.3
SD Area 4.313
CV Area 2.30%
Vial 74

Slope: 3.732
Intercept 0.6289
r^2 1.0000
r 1.0000
Zero Shift No



pH CT 10/26/17

	Analysis	Sample Name	Manual Diluti	~~Result~~	Notes	Date / Time	Vial
1*	NPOC	ICV	1.000	"			1
2*	NPOC	ICB	1.000	"			2
3*	NPOC	LCS	1.000	"			3
4*	NPOC	MB	1.000	"			4
5*	NPOC	TIC	1.000	"			5
6*	NPOC	280-102482-b-1	1.000	"			6
7*	NPOC	280-102482-b-3	1.000	"			7
8*	NPOC	280-102482-d-5	1.000	"			8
9*	NPOC	280-102482-l-7	1.000	"			9
10*	NPOC	MS 280-102482-l-7	1.000	"			10
11*	NPOC	MSD 280-102482-l-7	1.000	"			11
12*	NPOC	280-102482-c-10	1.000	"			12
13*	NPOC	280-102482-b-11	1.000	"			13
14*	NPOC	280-102482-d-13	1.000	"			14
15*	NPOC	CCV	1.000	"			15
16*	NPOC	CCB	1.000	"			16
17*	NPOC	280-102482-c-15	1.000	"			17
18*	NPOC	280-102482-d-17	1.000	"			18
19*	NPOC	280-102482-d-19	1.000	"			19
20*	NPOC	MS 280-102482-d-19	1.000	"			20
21*	NPOC	MSD 280-102482-d-19	1.000	"			21
22*	NPOC	280-102482-d-21	1.000	"			22
23*	NPOC	280-102516-a-3	2x 1.000	"	Dilution rerun		23
24*	NPOC	280-102702-b-1	1.000	"			24
25*	NPOC	280-102702-b-3	1.000	"			25
26*	NPOC	280-102702-a-5	1.000	"			26
27*	NPOC	CCV	1.000	"			27
28*	NPOC	CCB	1.000	"			28
29*	NPOC	280-102702-a-6	1.000	"			29
30*	NPOC	280-102702-b-7	1.000	"			30
31*	NPOC	280-102702-a-8	1.000	"			31
32*	NPOC	280-102711-a-5	1.000	"			32
33*	NPOC	280-102529-b-2	1.000	"			33
34*	NPOC	LCS	1.000	"			34
35*	NPOC	MB	1.000	"			35
36*	NPOC	TIC	1.000	"			36
37*	NPOC	280-102529-b-3	1.000	"			37
38*	NPOC	280-102529-b-4	1.000	"			38
39*	NPOC	CCV	1.000	"			39
40*	NPOC	CCB	1.000	"			40
41*	NPOC	280-102529-b-5	1.000	"			41
42*	NPOC	320-32498-i-1	1.000	"			42
43*	NPOC	320-32498-i-2	1.000	"			43
44*	NPOC	320-32498-i-3	1.000	"			44
45*	NPOC	320-32498-i-4	1.000	"			45
46*	NPOC	320-32498-i-5	1.000	"			46
47*	NPOC	280-102152-b-1	1.000	"			47
48*	NPOC	MS 280-102152-b-1	1.000	"			48
49*	NPOC	MSD 280-102152-b-1	1.000	"			49
50*	NPOC	280-102152-b-2	1.000	"			50
51*	NPOC	CCV	1.000	"			51

	Analysis	Sample Name	Manual Diluti	~~Result~~	Notes	Date / Time	Vial
52*	NPOC	CCB	1.000	"			52
53*	NPOC	280-102152-b-3	1.000	"			53
54*	NPOC	280-102152-b-4	1.000	"			54
55*	NPOC	280-102152-b-5	1.000	"			55
56*	NPOC	280-102152-b-6	1.000	"			56
57*	NPOC	280-102152-b-7	1.000	"			57
58*	NPOC	280-102152-b-8	1.000	"			58
59*	NPOC	280-102152-b-10	1.000	"			59
60*	NPOC	280-102152-b-11	1.000	"			60
61*	NPOC	280-102152-b-12	1.000	"			61
62*	NPOC	280-102152-f-13	1.000	"			62
63*	NPOC	CCV	1.000	"			63
64*	NPOC	CCB	1.000	"			64
65*	NPOC	MS 280-102152-f-13	1.000	"			65
66*	NPOC	MSD 280-102152-f-13	1.000	"			66
67*	NPOC	CCV	1.000	"			67
68*	NPOC	CCB	1.000	"			68

	Analysis	Sample Name	Manual Diluti	Result	Notes	Date / Time	Vial
1	NPOC	CAL 110716	1.000		Cal Curve O	10/26/2017 5:05:46	69, 70, 71, 7
2	NPOC	ICV	1.000	NPOC:20.43mg/L		10/26/2017 5:23:54	1
3	NPOC	ICB	1.000	NPOC:-0.03636mg/		10/26/2017 5:38:36	2
4	NPOC	LCS	1.000	NPOC:25.03mg/L		10/26/2017 5:56:32	3
5	NPOC	MB	1.000	NPOC:-0.03877mg/		10/26/2017 6:11:14	4
6	NPOC	TIC	1.000	NPOC:0.02446mg/		10/26/2017 6:25:57	5
7	NPOC	280-102482-b-1	1.000	NPOC:0.3746mg/L		10/26/2017 6:42:45	6
8	NPOC	280-102482-b-3	1.000	NPOC:0.2132mg/L		10/26/2017 6:57:27	7
9	NPOC	280-102482-d-5	1.000	NPOC:4.884mg/L		10/26/2017 7:14:14	8
10	NPOC	280-102482-l-7	1.000	NPOC:0.2677mg/L		10/26/2017 7:33:04	9
11	NPOC	MS 280-102482-l-7	1.000	NPOC:23.79mg/L		10/26/2017 7:49:55	10
12	NPOC	MSD 280-102482-l-7	1.000	NPOC:24.11mg/L		10/26/2017 8:04:48	11
13	NPOC	280-102482-c-10	1.000	NPOC:0.06863mg/		10/26/2017 8:21:35	12
14	NPOC	280-102482-b-11	1.000	NPOC:1.939mg/L		10/26/2017 8:40:25	13
15	NPOC	280-102482-d-13	1.000	NPOC:2.010mg/L		10/26/2017 8:57:06	14
16	NPOC	CCV	1.000	NPOC:24.14mg/L		10/26/2017 9:16:41	15
17	NPOC	CCB	1.000	NPOC:-0.02706mg/		10/26/2017 9:33:22	16
18	NPOC	280-102482-c-15	1.000	NPOC:0.1824mg/L		10/26/2017 9:48:04	17
19	NPOC	280-102482-d-17	1.000	NPOC:3.575mg/L		10/26/2017 10:04:5	18
20	NPOC	280-102482-d-19	1.000	NPOC:2.321mg/L		10/26/2017 10:21:3	19
21	NPOC	MS 280-102482-d-19	1.000	NPOC:27.00mg/L		10/26/2017 10:36:5	20
22	NPOC	MSD 280-102482-d-19	1.000	NPOC:26.45mg/L		10/26/2017 10:56:2	21
23	NPOC	280-102482-d-21	1.000	NPOC:3.842mg/L		10/26/2017 11:13:0	22
24	NPOC	280-102516-a-3	2.000	NPOC:50.36mg/L		10/26/2017 11:30:0	23
25	NPOC	280-102702-b-1	1.000	NPOC:1.035mg/L		10/26/2017 11:48:5	24
26	NPOC	280-102702-b-3	1.000	NPOC:1.807mg/L		10/27/2017 12:05:3	25
27	NPOC	280-102702-a-5	1.000	NPOC:0.4886mg/L		10/27/2017 12:22:1	26
28	NPOC	CCV	1.000	NPOC:23.43mg/L		10/27/2017 12:37:1	27
29	NPOC	CCB	1.000	NPOC:-0.03623mg/		10/27/2017 12:51:5	28
30	NPOC	280-102702-a-6	1.000	NPOC:0.8261mg/L		10/27/2017 1:08:46	29
31	NPOC	280-102702-b-7	1.000	NPOC:0.5998mg/L		10/27/2017 1:27:36	30
32	NPOC	280-102702-a-8	1.000	NPOC:0.7679mg/L		10/27/2017 1:46:21	31
33	NPOC	280-102711-a-5	1.000	NPOC:2.078mg/L		10/27/2017 2:05:26	32
34	NPOC	280-102529-b-2	1.000	NPOC:11.90mg/L		10/27/2017 2:22:08	33
35	NPOC	LCS	1.000	NPOC:22.88mg/L		10/27/2017 2:37:01	34
36	NPOC	MB	1.000	NPOC:-0.02205mg/		10/27/2017 2:51:45	35
37	NPOC	TIC	1.000	NPOC:0.03894mg/		10/27/2017 3:06:29	36
38	NPOC	280-102529-b-3	1.000	NPOC:1.198mg/L		10/27/2017 3:25:21	37
39	NPOC	280-102529-b-4	1.000	NPOC:1.294mg/L		10/27/2017 3:42:02	38
40	NPOC	CCV	1.000	NPOC:23.38mg/L		10/27/2017 3:59:10	39
41	NPOC	CCB	1.000	NPOC:-0.03064mg/		10/27/2017 4:13:53	40
42	NPOC	280-102529-b-5	1.000	NPOC:1.174mg/L		10/27/2017 4:30:41	41
43	NPOC	320-32498-i-1	1.000	NPOC:1.064mg/L		10/27/2017 4:49:32	42
44	NPOC	320-32498-i-2	1.000	NPOC:1.886mg/L		10/27/2017 5:06:13	43
45	NPOC	320-32498-i-3	1.000	NPOC:4.614mg/L		10/27/2017 5:23:00	44
46	NPOC	320-32498-i-4	1.000	NPOC:3.639mg/L		10/27/2017 5:41:51	45
47	NPOC	320-32498-i-5	1.000	NPOC:1.351mg/L		10/27/2017 6:00:36	46
48	NPOC	280-102152-b-1	1.000	NPOC:0.1536mg/L		10/27/2017 6:15:13	47
49	NPOC	MS 280-102152-b-1	1.000	NPOC:23.53mg/L		10/27/2017 6:32:15	48
50	NPOC	MSD 280-102152-b-1	1.000	NPOC:23.63mg/L		10/27/2017 6:49:20	49
51	NPOC	280-102152-b-2	1.000	NPOC:0.1387mg/L		10/27/2017 7:06:07	50
52	NPOC	CCV	1.000	NPOC:22.93mg/L		10/27/2017 7:20:55	51
53	NPOC	CCB	1.000	NPOC:-0.02467mg/		10/27/2017 7:37:43	52

	Analysis	Sample Name	Manual Diluti	Result	Notes	Date / Time	Vial
54	NPOC	280-102152-b-3	1.000	NPOC:0.1620mg/L		10/27/2017 7:52:26	53
55	NPOC	280-102152-b-4	1.000	NPOC:0.1447mg/L		10/27/2017 8:07:10	54
56	NPOC	280-102152-b-5	1.000	NPOC:0.1267mg/L		10/27/2017 8:21:55	55
57	NPOC	280-102152-b-6	1.000	NPOC:0.1346mg/L		10/27/2017 8:36:40	56
58	NPOC	280-102152-b-7	1.000	NPOC:0.1509mg/L		10/27/2017 8:51:25	57
59	NPOC	280-102152-b-8	1.000	NPOC:0.1704mg/L		10/27/2017 9:08:14	58
60	NPOC	280-102152-b-10	1.000	NPOC:0.2327mg/L		10/27/2017 9:25:02	59
61	NPOC	280-102152-b-11	1.000	NPOC:0.2351mg/L		10/27/2017 9:41:50	60
62	NPOC	280-102152-b-12	1.000	NPOC:0.1870mg/L		10/27/2017 9:58:38	61
63	NPOC	280-102152-f-13	1.000	NPOC:0.1880mg/L		10/27/2017 10:13:2	62
64	NPOC	CCV	1.000	NPOC:24.24mg/L		10/27/2017 10:32:4	63
65	NPOC	CCB	1.000	NPOC:0.02436mg/		10/27/2017 10:47:1	64
66	NPOC	MS 280-102152-f-13	1.000	NPOC:24.32mg/L		10/27/2017 11:02:2	65
67	NPOC	MSD 280-102152-f-13	1.000	NPOC:23.95mg/L		10/27/2017 11:19:3	66
68	NPOC	CCV	1.000	NPOC:23.35mg/L		10/27/2017 11:34:2	67
69	NPOC	CCB	1.000	NPOC:0.00649mg/		10/27/2017 11:49:0	68

Instr.Information

System	TOC-V cpn 3
Instrument Options	TOC/ASI/
Catalyst	Regular Sensitivity

Cal. Curve

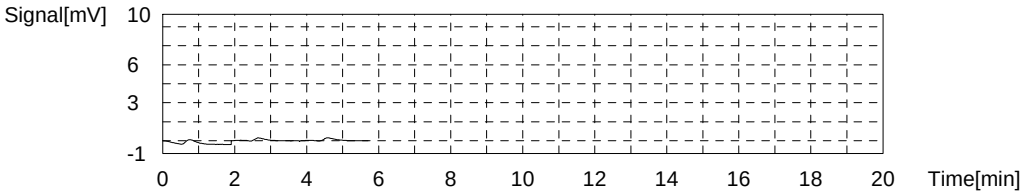
Sample Name:	CAL 110716
Sample ID:	Untitled
Cal. Curve:	TOC3.2017_10_26_15_52_21.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.6477	50uL	1	*******	E	10/26/2017 4:00:15 PM
2	0.4323	50uL	1	*******		10/26/2017 4:02:18 PM
3	0.5035	50uL	1	*******		10/26/2017 4:04:22 PM

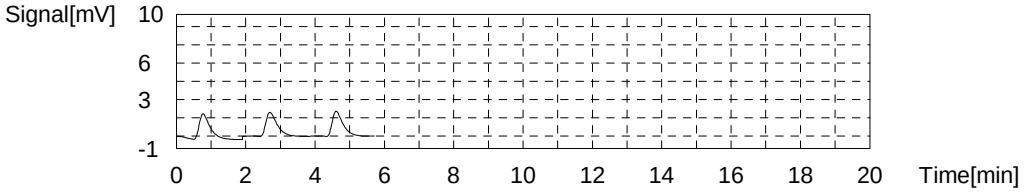
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 0.4679



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.513	50uL	1	*******	E	10/26/2017 4:12:53 PM
2	4.292	50uL	1	*******		10/26/2017 4:14:57 PM
3	4.393	50uL	1	*******		10/26/2017 4:17:01 PM

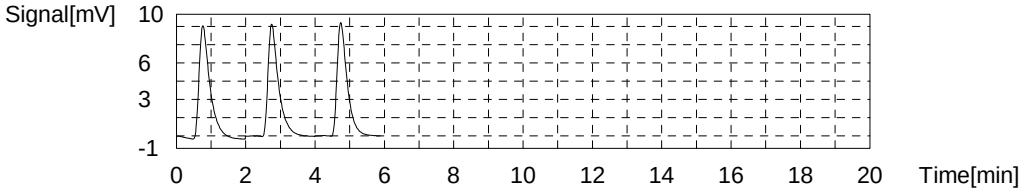
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 4.342



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	20.06	50uL	1	*******		10/26/2017 4:25:36 PM
2	19.29	50uL	1	*******		10/26/2017 4:27:46 PM
3	18.48	50uL	1	*******	E	10/26/2017 4:29:50 PM

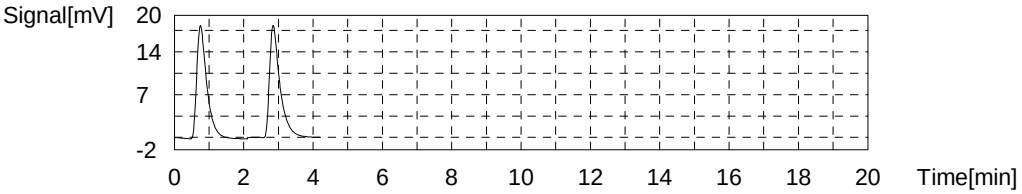
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 19.68



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	37.24	50uL	1	*******		10/26/2017 4:38:33 PM
2	38.23	50uL	1	*******		10/26/2017 4:40:49 PM

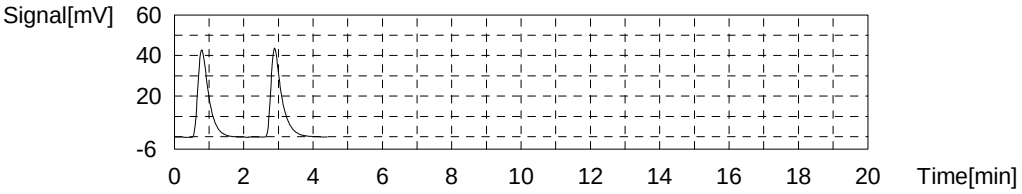
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 37.73



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	93.46	50uL	1	*******		10/26/2017 4:49:40 PM
2	94.46	50uL	1	*******		10/26/2017 4:52:05 PM

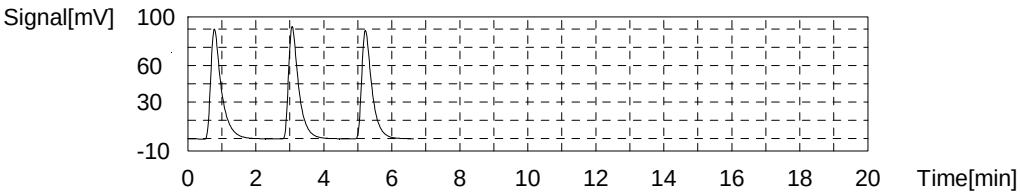
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 93.96



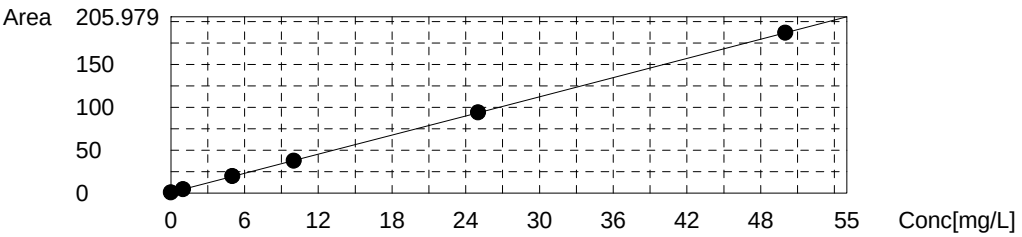
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.4	50uL	1	*******	E	10/26/2017 5:01:05 PM
2	190.3	50uL	1	*******		10/26/2017 5:03:25 PM
3	184.2	50uL	1	*******		10/26/2017 5:05:46 PM

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 187.3



Slope: 3.732
Intercept 0.6289
r^2 1.0000
r 1.0000
Zero Shift No



Sample

Sample Name: ICV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

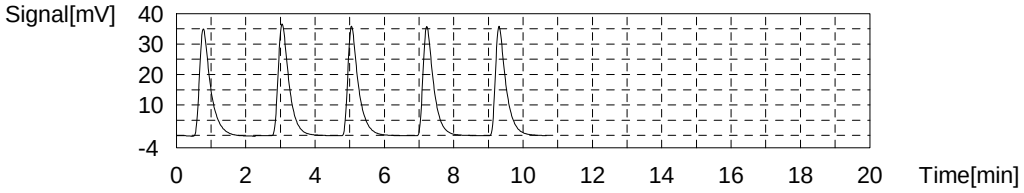
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.43mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	78.73	20.92mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:14:51 PM
2	79.89	21.24mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:17:02 PM
3	77.05	20.47mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:19:20 PM
4	75.64	20.10mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:21:36 PM
5	76.11	20.22mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:23:54 PM

Mean Area 76.88
Mean Conc. 20.43mg/L



Sample

Sample Name: ICB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

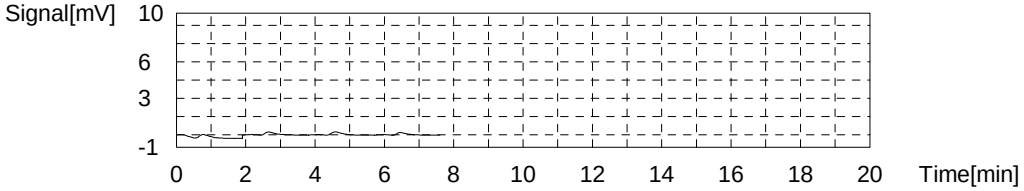
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.03636mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5390	-0.02409mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:32:24 PM
2	0.5030	-0.03374mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:34:28 PM
3	0.5472	-0.02189mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:36:32 PM
4	0.3836	-0.06572mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:38:36 PM

Mean Area 0.4932
Mean Conc. -0.03636mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

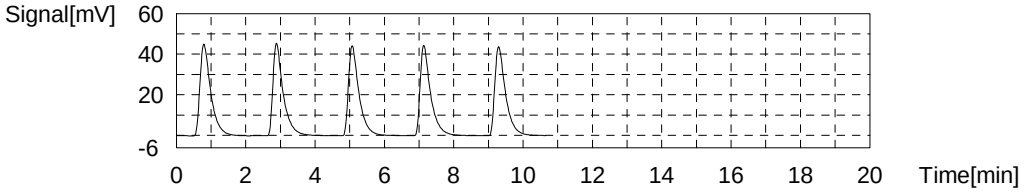
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.03mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.72	26.28mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:47:21 PM
2	94.67	25.20mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:49:42 PM
3	93.43	24.86mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:51:56 PM
4	93.34	24.84mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:54:14 PM
5	94.77	25.22mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 5:56:32 PM

Mean Area 94.05
Mean Conc. 25.03mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

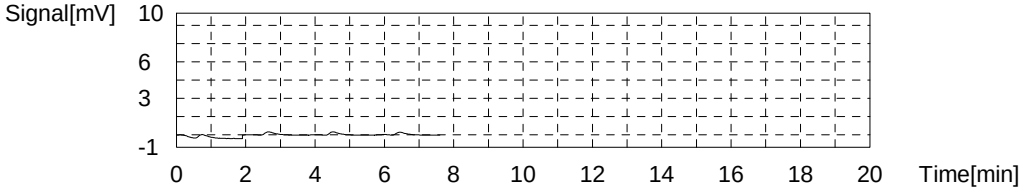
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.03877mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5060	-0.03293mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:05:03 PM
2	0.5260	-0.02757mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:07:06 PM
3	0.4727	-0.04185mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:09:10 PM
4	0.4321	-0.05273mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:11:14 PM

Mean Area 0.4842
Mean Conc. -0.03877mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

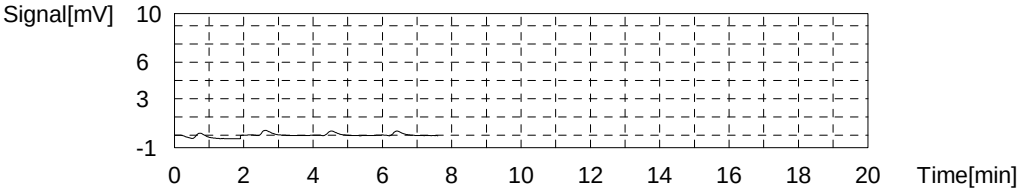
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02446mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7430	0.03056mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:19:46 PM
2	0.7794	0.04032mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:21:49 PM
3	0.7051	0.02041mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:23:53 PM
4	0.6533	0.00653mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:25:57 PM

Mean Area 0.7202
Mean Conc. 0.02446mg/L



Sample

Sample Name: 280-102482-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

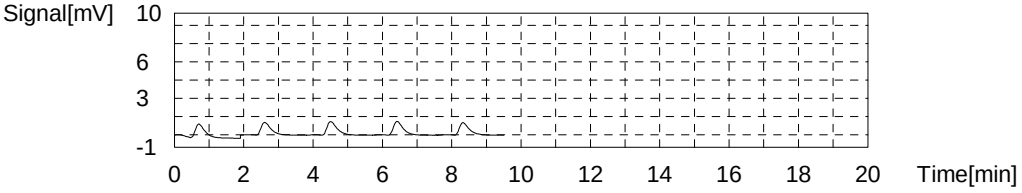
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3746mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.975	0.3606mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:34:29 PM
2	2.014	0.3711mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:36:33 PM
3	2.198	0.4204mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:38:37 PM
4	2.171	0.4132mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:40:41 PM
5	1.948	0.3534mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:42:45 PM

Mean Area 2.027
Mean Conc. 0.3746mg/L



Sample

Sample Name: 280-102482-b-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

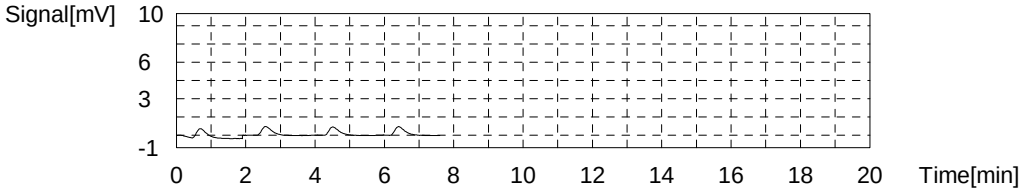
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2132mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.474	0.2264mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:51:15 PM
2	1.424	0.2130mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:53:19 PM
3	1.354	0.1943mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:55:23 PM
4	1.447	0.2192mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 6:57:27 PM

Mean Area 1.425
Mean Conc. 0.2132mg/L



Sample

Sample Name: 280-102482-d-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

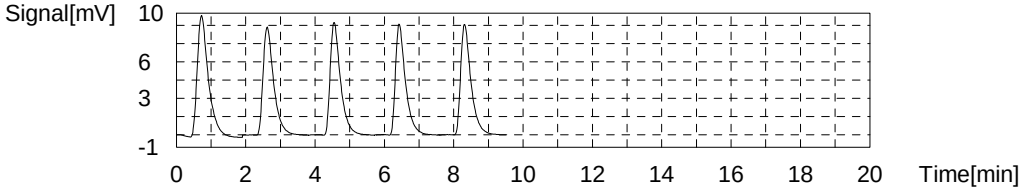
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.884mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.49	5.857mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:05:58 PM
2	18.98	4.917mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:08:02 PM
3	19.28	4.997mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:10:06 PM
4	18.43	4.769mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:12:10 PM
5	18.74	4.852mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:14:14 PM

Mean Area 18.86
Mean Conc. 4.884mg/L



Sample

Sample Name: 280-102482-l-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

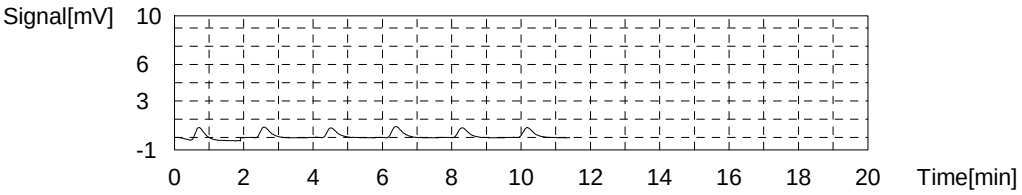
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2677mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.973	0.3601mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:22:44 PM
2	1.744	0.2988mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:24:48 PM
3	1.550	0.2468mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:26:52 PM
4	1.929	0.3483mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:28:56 PM
5	1.610	0.2628mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:31:00 PM
6	1.608	0.2623mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:33:04 PM

Mean Area 1.628
Mean Conc. 0.2677mg/L



Sample

Sample Name: MS 280-102482-I-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

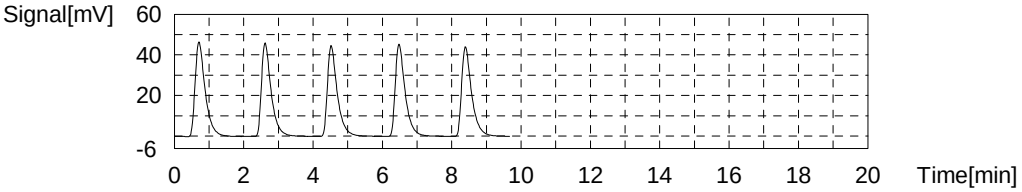
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.79mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	94.75	25.22mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:41:32 PM
2	89.07	23.69mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:43:35 PM
3	88.99	23.67mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:45:41 PM
4	90.17	23.99mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:47:47 PM
5	89.52	23.82mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:49:55 PM

Mean Area 89.44
Mean Conc. 23.79mg/L



Sample

Sample Name: MSD 280-102482-I-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

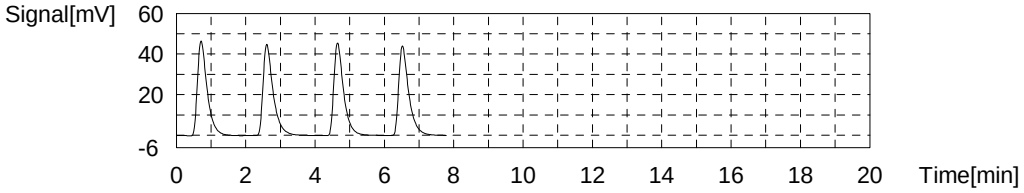
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.11mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	92.13	24.51mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 7:58:26 PM
2	91.33	24.30mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:00:38 PM
3	89.51	23.81mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:02:42 PM
4	89.51	23.81mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:04:48 PM

Mean Area 90.62
Mean Conc. 24.11mg/L



Sample

Sample Name: 280-102482-c-10
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

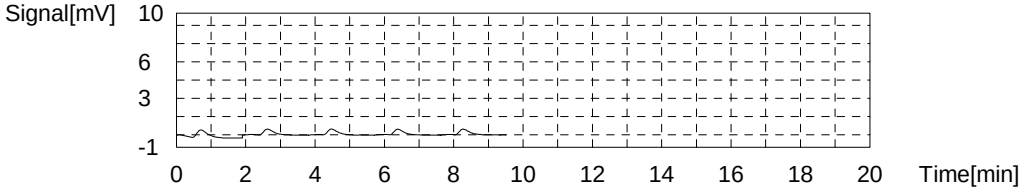
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.06863mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.240	0.1637mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:13:19 PM
2	0.9173	0.07726mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:15:23 PM
3	0.9228	0.07874mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:17:27 PM
4	0.8188	0.05087mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:19:31 PM
5	0.8814	0.06764mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:21:35 PM

Mean Area 0.8851
Mean Conc. 0.06863mg/L



Sample

Sample Name: 280-102482-b-11
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

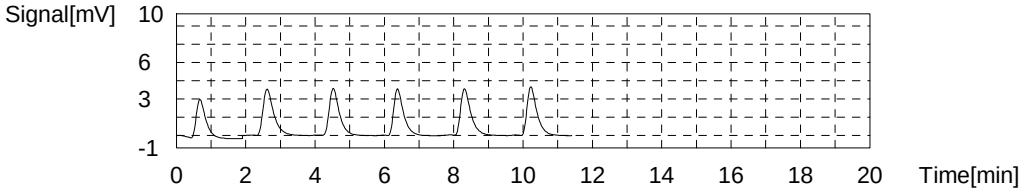
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.939mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.809	1.388mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:30:05 PM
2	8.073	1.994mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:32:09 PM
3	7.791	1.919mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:34:13 PM
4	7.487	1.837mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:36:17 PM
5	7.647	1.880mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:38:21 PM
6	7.954	1.963mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:40:25 PM

Mean Area 7.866
Mean Conc. 1.939mg/L



Sample

Sample Name: 280-102482-d-13
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

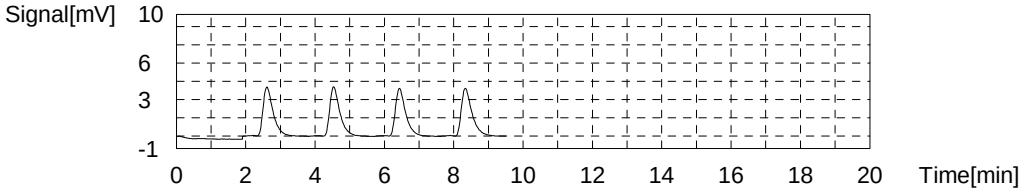
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.010mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	-0.1685mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:48:50 PM
2	8.051	1.989mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:50:54 PM
3	8.166	2.019mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:52:58 PM
4	8.051	1.989mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:55:02 PM
5	8.254	2.043mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 8:57:06 PM

Mean Area 8.130
Mean Conc. 2.010mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

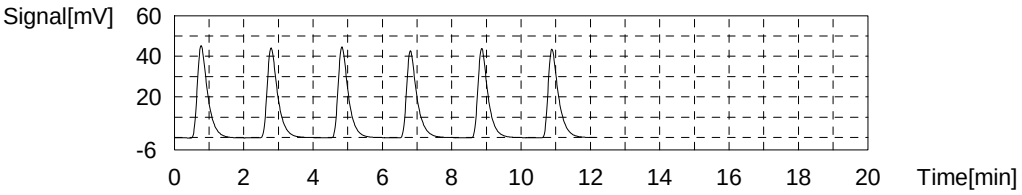
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.14mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	95.05	25.30mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:05:44 PM
2	94.30	25.10mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:07:57 PM
3	92.22	24.54mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:10:06 PM
4	89.62	23.84mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:12:19 PM
5	89.39	23.78mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:14:30 PM
6	91.63	24.38mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:16:41 PM

Mean Area 90.72
Mean Conc. 24.14mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

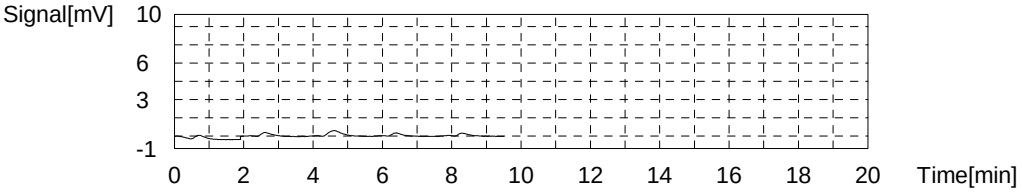
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02706mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5756	-0.01428mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:25:06 PM
2	0.6371	0.00219mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:27:10 PM
3	1.150	0.1396mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:29:14 PM
4	0.4680	-0.04311mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:31:18 PM
5	0.4310	-0.05303mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:33:22 PM

Mean Area 0.5279
Mean Conc. -0.02706mg/L



Sample

Sample Name: 280-102482-c-15
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

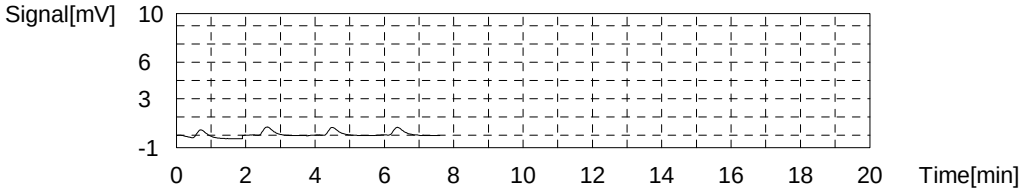
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1824mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.268	0.1712mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:41:52 PM
2	1.339	0.1902mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:43:56 PM
3	1.311	0.1827mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:46:00 PM
4	1.321	0.1854mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:48:04 PM

Mean Area 1.310
Mean Conc. 0.1824mg/L



Sample

Sample Name: 280-102482-d-17
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

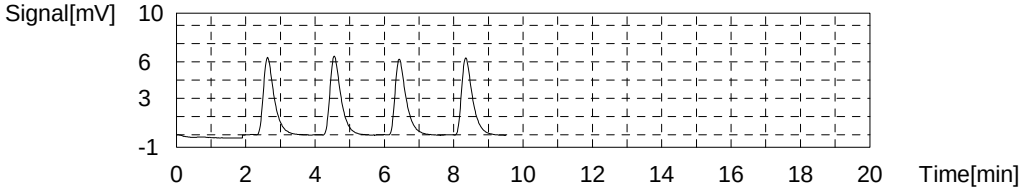
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.575mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	-0.1685mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:56:35 PM
2	13.84	3.539mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 9:58:39 PM
3	14.23	3.644mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:00:43 PM
4	13.87	3.548mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:02:47 PM
5	13.95	3.569mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:04:51 PM

Mean Area 13.97
Mean Conc. 3.575mg/L



Sample

Sample Name: 280-102482-d-19
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

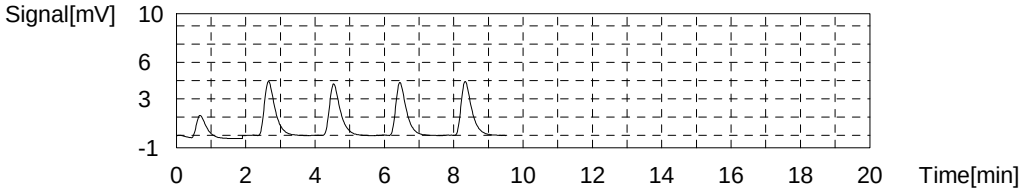
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.321mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.620	0.8014mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:13:21 PM
2	9.418	2.355mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:15:25 PM
3	9.219	2.301mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:17:29 PM
4	9.142	2.281mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:19:33 PM
5	9.383	2.345mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:21:37 PM

Mean Area 9.291
Mean Conc. 2.321mg/L



Sample

Sample Name: MS 280-102482-d-19
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

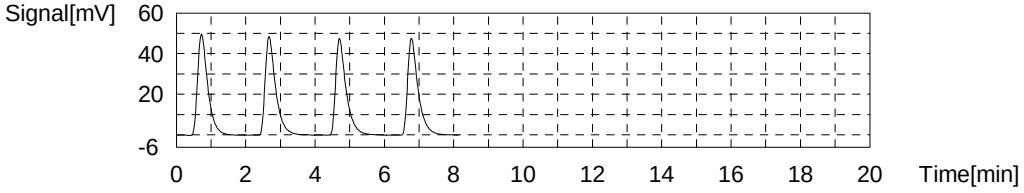
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.00mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	102.9	27.40mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:30:10 PM
2	102.1	27.19mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:32:22 PM
3	100.2	26.68mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:34:36 PM
4	100.4	26.73mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:36:51 PM

Mean Area 101.4
Mean Conc. 27.00mg/L



Sample

Sample Name: MSD 280-102482-d-19
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

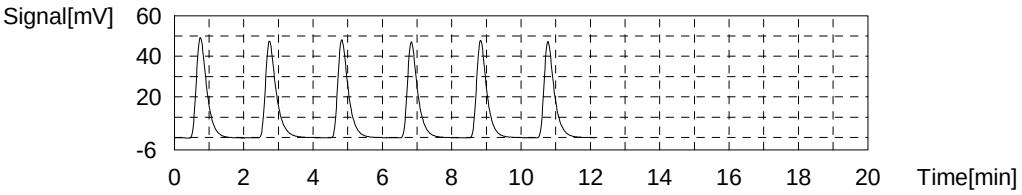
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.45mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.2	28.02mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:45:29 PM
2	103.5	27.56mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:47:44 PM
3	102.1	27.19mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:49:55 PM
4	98.65	26.26mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:52:06 PM
5	98.44	26.21mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:54:13 PM
6	98.29	26.17mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 10:56:26 PM

Mean Area 99.37
Mean Conc. 26.45mg/L



Sample

Sample Name: 280-102482-d-21
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

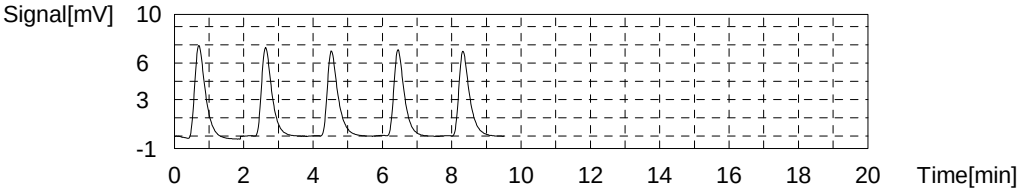
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.842mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.60	4.279mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:04:51 PM
2	15.15	3.890mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:06:55 PM
3	15.08	3.872mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:08:59 PM
4	14.77	3.789mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:11:03 PM
5	14.87	3.815mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:13:07 PM

Mean Area 14.97
Mean Conc. 3.842mg/L



Sample

Sample Name: 280-102516-a-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

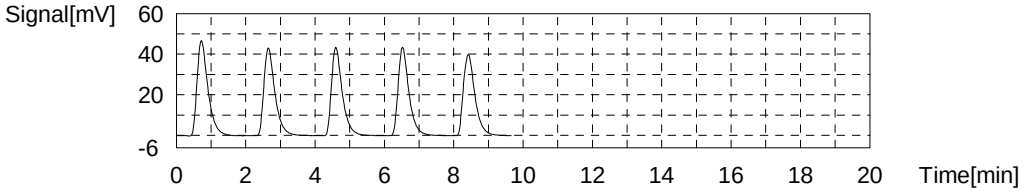
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:50.36mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	104.0	55.39mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:21:39 PM
2	95.60	50.89mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:23:46 PM
3	94.72	50.42mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:25:52 PM
4	94.78	50.45mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:27:58 PM
5	93.38	49.70mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:30:02 PM

Mean Area 94.62
Mean Conc. 50.36mg/L



Sample

Sample Name: 280-102702-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

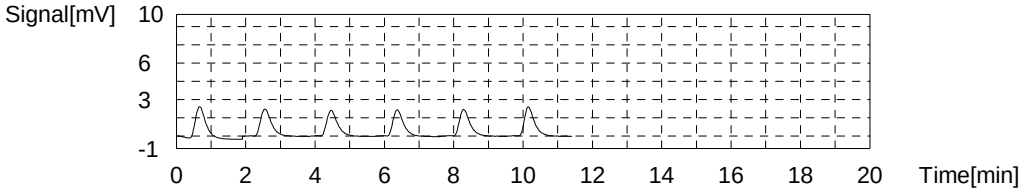
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.035mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.287	1.248mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:38:32 PM
2	4.648	1.077mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:40:36 PM
3	4.488	1.034mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:42:40 PM
4	4.416	1.015mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:44:44 PM
5	4.420	1.016mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:46:48 PM
6	4.754	1.105mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:48:52 PM

Mean Area 4.493
Mean Conc. 1.035mg/L



Sample

Sample Name: 280-102702-b-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

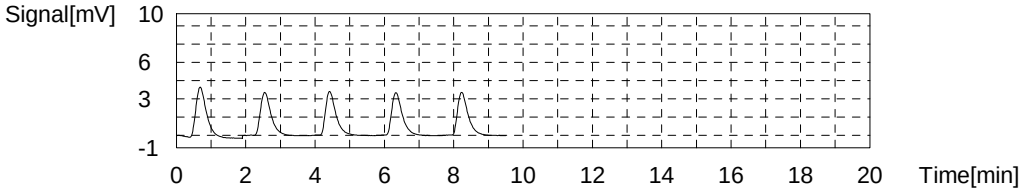
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.807mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.772	2.182mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:57:17 PM
2	7.422	1.820mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/26/2017 11:59:21 PM
3	7.446	1.826mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:01:25 AM
4	7.405	1.815mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:03:29 AM
5	7.220	1.766mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:05:33 AM

Mean Area 7.373
Mean Conc. 1.807mg/L



Sample

Sample Name: 280-102702-a-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

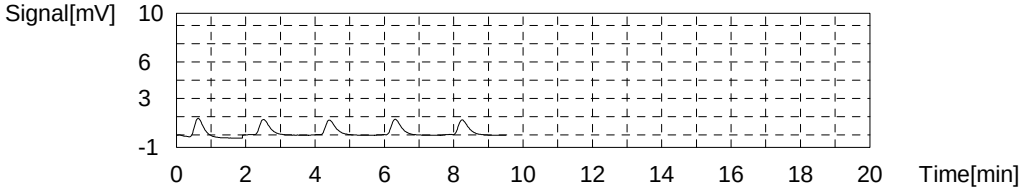
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4886mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.813	0.5852mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:14:03 AM
2	2.512	0.5045mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:16:07 AM
3	2.345	0.4598mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:18:11 AM
4	2.510	0.5040mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:20:15 AM
5	2.444	0.4863mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:22:19 AM

Mean Area 2.453
Mean Conc. 0.4886mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

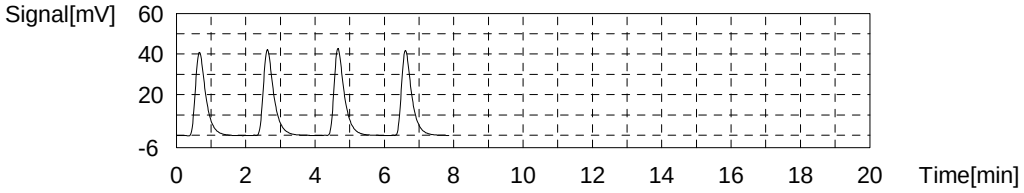
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.43mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	86.77	23.08mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:30:51 AM
2	89.72	23.87mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:33:02 AM
3	89.20	23.73mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:35:11 AM
4	86.61	23.04mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:37:16 AM

Mean Area 88.08
Mean Conc. 23.43mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

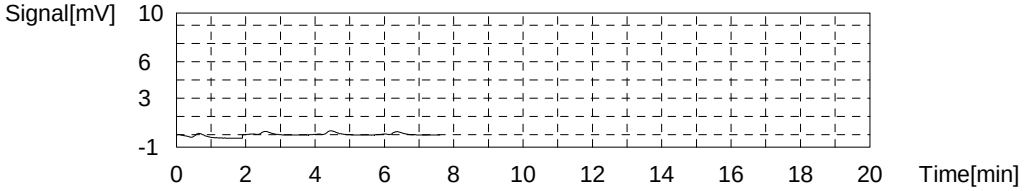
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.03623mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5465	-0.02208mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:45:47 AM
2	0.4462	-0.04895mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:47:51 AM
3	0.5865	-0.01136mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:49:55 AM
4	0.3956	-0.06251mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 12:51:59 AM

Mean Area 0.4937
Mean Conc. -0.03623mg/L



Sample

Sample Name: 280-102702-a-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

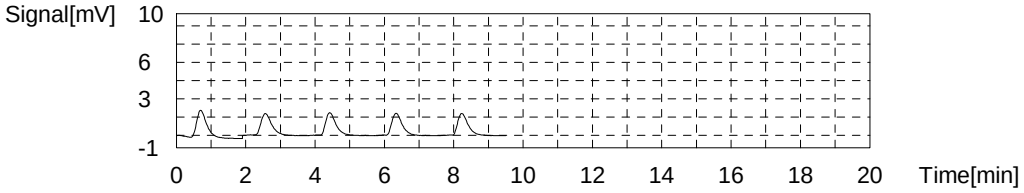
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8261mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.442	1.022mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:00:30 AM
2	3.758	0.8383mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:02:34 AM
3	3.763	0.8397mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:04:38 AM
4	3.740	0.8335mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:06:42 AM
5	3.588	0.7928mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:08:46 AM

Mean Area 3.712
Mean Conc. 0.8261mg/L



Sample

Sample Name: 280-102702-b-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

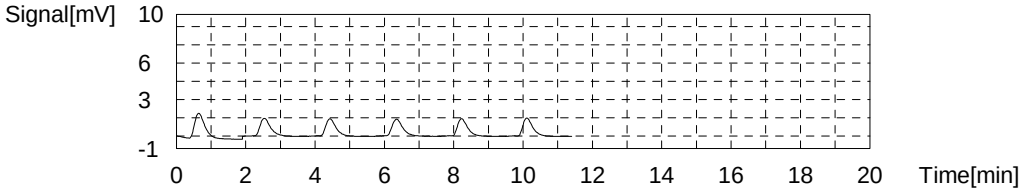
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5998mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.172	0.9493mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:17:16 AM
2	3.061	0.6516mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:19:20 AM
3	2.840	0.5924mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:21:24 AM
4	2.891	0.6061mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:23:28 AM
5	2.827	0.5889mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:25:32 AM
6	2.913	0.6119mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:27:36 AM

Mean Area 2.868
Mean Conc. 0.5998mg/L



Sample

Sample Name: 280-102702-a-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

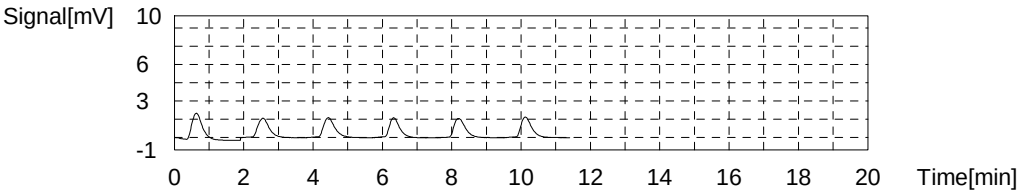
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7679mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.439	1.021mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:36:01 AM
2	3.451	0.7561mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:38:05 AM
3	3.534	0.7783mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:40:09 AM
4	3.156	0.6770mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:42:13 AM
5	3.513	0.7727mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:44:17 AM
6	3.482	0.7644mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:46:21 AM

Mean Area 3.495
Mean Conc. 0.7679mg/L



Sample

Sample Name: 280-102711-a-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

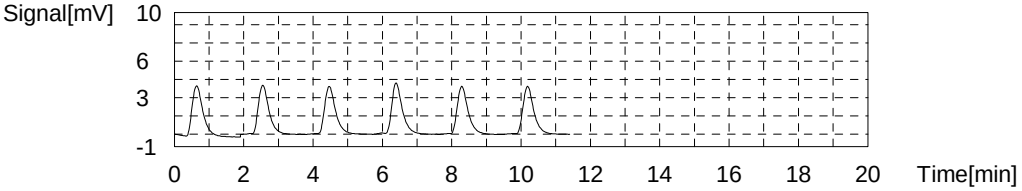
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.078mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.934	2.225mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:55:06 AM
2	8.481	2.104mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:57:10 AM
3	8.398	2.081mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 1:59:14 AM
4	9.114	2.273mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:01:18 AM
5	8.336	2.065mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:03:22 AM
6	8.318	2.060mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:05:26 AM

Mean Area 8.383
Mean Conc. 2.078mg/L



Sample

Sample Name: 280-102529-b-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

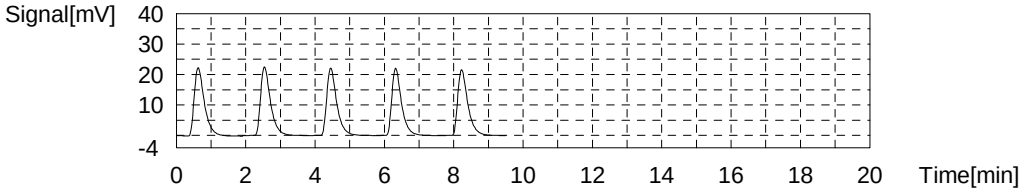
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.90mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	45.95	12.14mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:13:52 AM
2	45.08	11.91mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:15:56 AM
3	44.98	11.88mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:18:00 AM
4	43.32	11.44mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:20:04 AM
5	44.10	11.65mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:22:08 AM

Mean Area 45.03
Mean Conc. 11.90mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

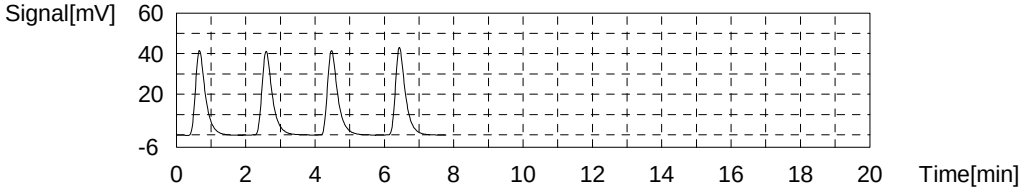
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:22.88mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	84.29	22.41mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:30:40 AM
2	86.12	22.90mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:32:44 AM
3	86.98	23.13mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:34:49 AM
4	86.75	23.07mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:37:01 AM

Mean Area 86.04
Mean Conc. 22.88mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

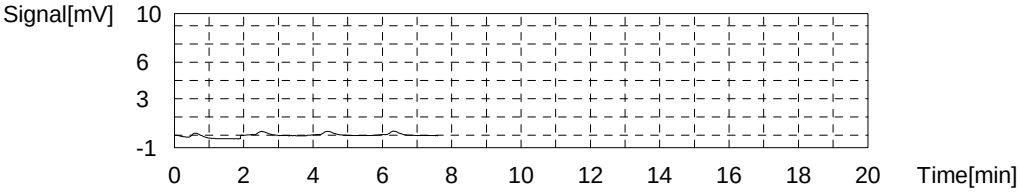
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02205mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6028	-0.00700mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:45:33 AM
2	0.5040	-0.03347mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:47:37 AM
3	0.5518	-0.02066mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:49:41 AM
4	0.5279	-0.02706mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 2:51:45 AM

Mean Area 0.5466
Mean Conc. -0.02205mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

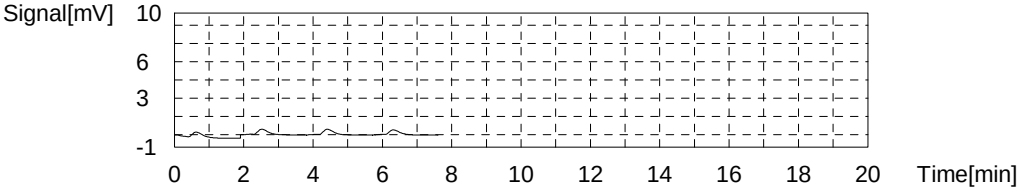
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03894mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7045	0.02025mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:00:17 AM
2	0.7884	0.04273mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:02:21 AM
3	0.8450	0.05789mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:04:25 AM
4	0.7592	0.03491mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:06:29 AM

Mean Area 0.7743
Mean Conc. 0.03894mg/L



Sample

Sample Name: 280-102529-b-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

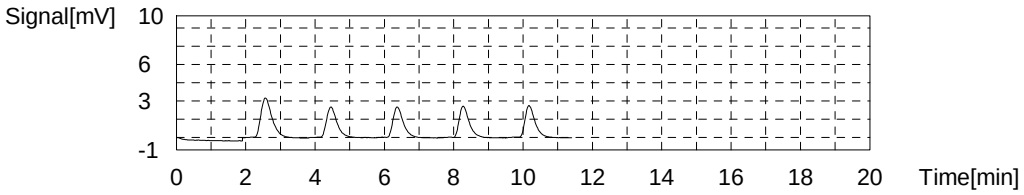
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.198mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	-0.1685mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:15:01 AM
2	7.248	1.773mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:17:05 AM
3	5.146	1.210mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:19:09 AM
4	5.134	1.207mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:21:13 AM
5	4.971	1.163mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:23:17 AM
6	5.158	1.213mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:25:21 AM

Mean Area 5.102
Mean Conc. 1.198mg/L



Sample

Sample Name: 280-102529-b-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

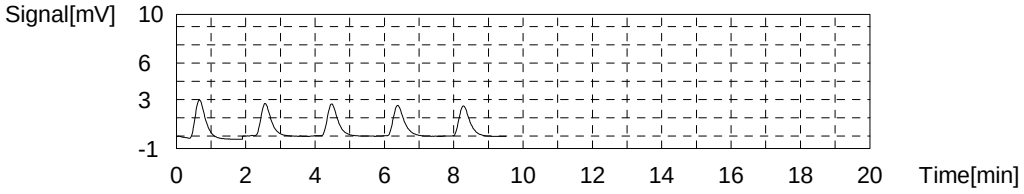
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.294mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.402	1.547mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:33:46 AM
2	5.451	1.292mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:35:50 AM
3	5.514	1.309mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:37:54 AM
4	5.512	1.308mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:39:58 AM
5	5.354	1.266mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:42:02 AM

Mean Area 5.458
Mean Conc. 1.294mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

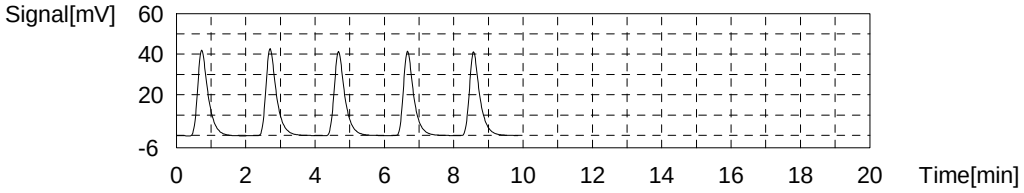
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.38mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.62	23.84mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:50:39 AM
2	90.66	24.12mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:52:47 AM
3	88.84	23.63mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:54:57 AM
4	86.26	22.94mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:57:01 AM
5	86.83	23.09mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 3:59:10 AM

Mean Area 87.89
Mean Conc. 23.38mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

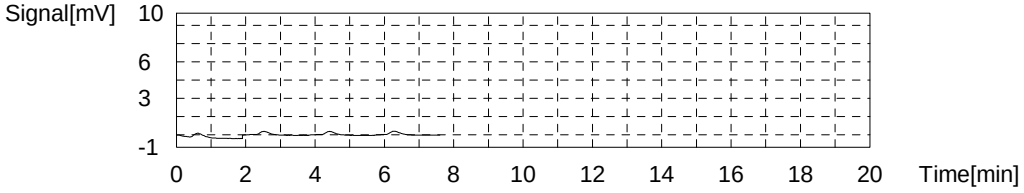
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.03064mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5569	-0.01929mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:07:41 AM
2	0.4871	-0.03800mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:09:45 AM
3	0.4933	-0.03633mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:11:49 AM
4	0.5209	-0.02894mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:13:53 AM

Mean Area 0.5146
Mean Conc. -0.03064mg/L



Sample

Sample Name: 280-102529-b-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

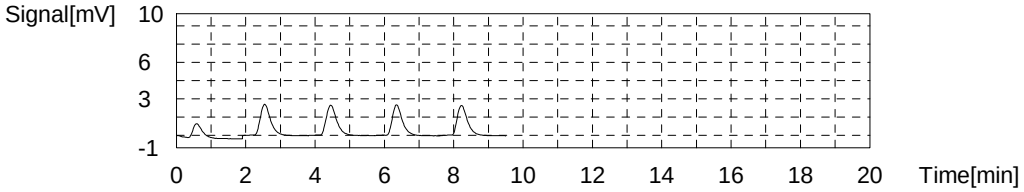
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.174mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.028	0.3748mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:22:25 AM
2	5.085	1.194mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:24:29 AM
3	5.061	1.187mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:26:33 AM
4	4.937	1.154mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:28:37 AM
5	4.954	1.159mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:30:41 AM

Mean Area 5.009
Mean Conc. 1.174mg/L



Sample

Sample Name: 320-32498-i-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

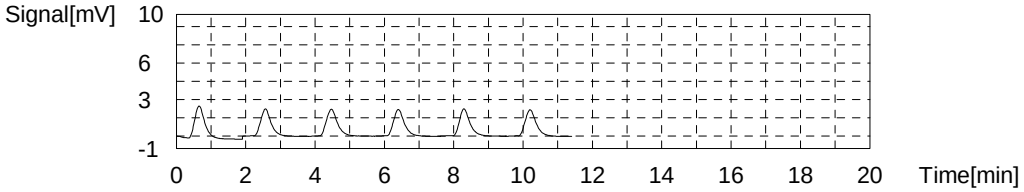
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.064mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.234	1.234mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:39:12 AM
2	4.566	1.055mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:41:16 AM
3	4.866	1.135mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:43:20 AM
4	4.665	1.081mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:45:24 AM
5	4.479	1.032mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:47:28 AM
6	4.695	1.089mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:49:32 AM

Mean Area 4.601
Mean Conc. 1.064mg/L



Sample

Sample Name: 320-32498-i-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

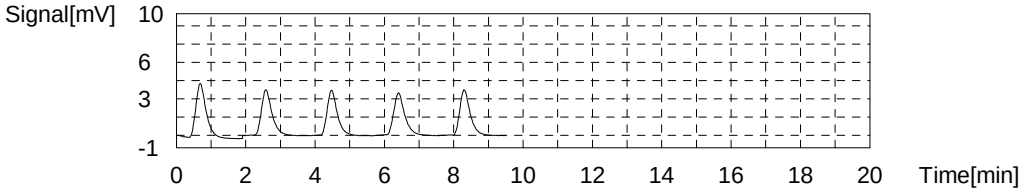
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.886mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.143	2.281mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 4:57:57 AM
2	7.814	1.925mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:00:01 AM
3	7.559	1.857mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:02:05 AM
4	7.607	1.870mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:04:09 AM
5	7.690	1.892mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:06:13 AM

Mean Area 7.668
Mean Conc. 1.886mg/L



Sample

Sample Name: 320-32498-i-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

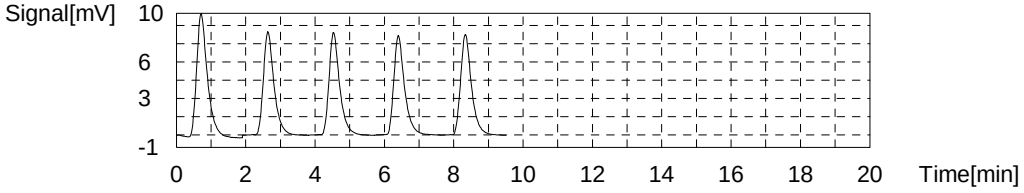
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.614mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.01	5.728mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:14:44 AM
2	18.01	4.657mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:16:48 AM
3	17.94	4.638mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:18:52 AM
4	17.47	4.512mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:20:56 AM
5	17.98	4.649mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:23:00 AM

Mean Area 17.85
Mean Conc. 4.614mg/L



Sample

Sample Name: 320-32498-i-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

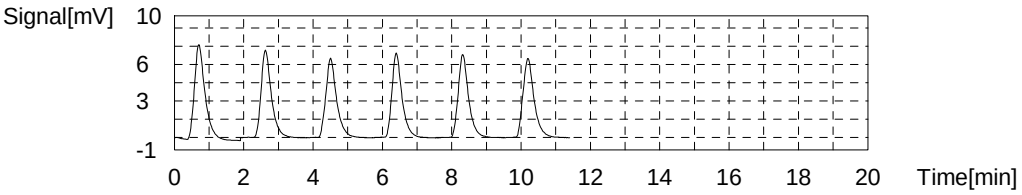
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.639mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.59	4.276mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:31:31 AM
2	14.76	3.786mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:33:35 AM
3	14.13	3.617mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:35:39 AM
4	14.07	3.601mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:37:43 AM
5	14.18	3.631mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:39:47 AM
6	14.46	3.706mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:41:51 AM

Mean Area 14.21
Mean Conc. 3.639mg/L



Sample

Sample Name: 320-32498-i-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

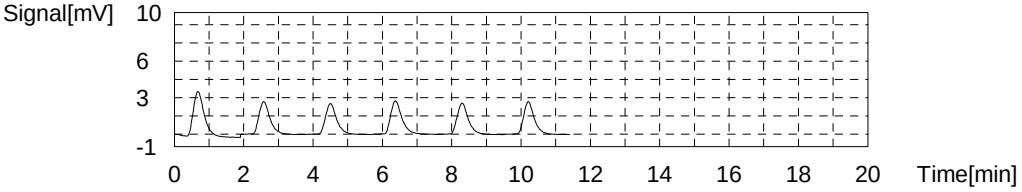
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.351mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.961	1.964mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:50:16 AM
2	5.840	1.396mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:52:20 AM
3	5.594	1.330mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:54:24 AM
4	6.114	1.470mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:56:28 AM
5	5.614	1.336mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 5:58:32 AM
6	5.641	1.343mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:00:36 AM

Mean Area 5.672
Mean Conc. 1.351mg/L



Sample

Sample Name: 280-102152-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

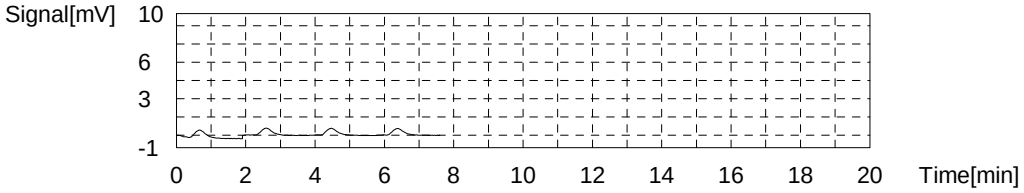
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1536mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.297	0.1790mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:09:01 AM
2	1.180	0.1476mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:11:05 AM
3	1.194	0.1514mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:13:09 AM
4	1.138	0.1364mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:15:13 AM

Mean Area 1.202
Mean Conc. 0.1536mg/L



Sample

Sample Name: MS 280-102152-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

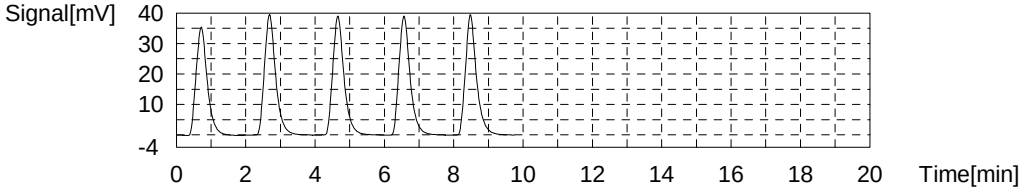
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.53mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	80.61	21.43mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:23:48 AM
2	89.13	23.71mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:25:57 AM
3	88.42	23.52mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:28:02 AM
4	87.97	23.40mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:30:06 AM
5	88.24	23.47mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:32:15 AM

Mean Area 88.44
Mean Conc. 23.53mg/L



Sample

Sample Name: MSD 280-102152-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

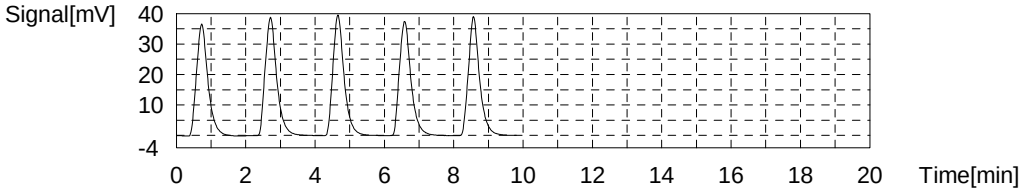
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.63mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	85.21	22.66mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:40:52 AM
2	90.19	23.99mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:42:58 AM
3	89.33	23.76mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:45:04 AM
4	87.73	23.34mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:47:13 AM
5	88.00	23.41mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:49:20 AM

Mean Area 88.81
Mean Conc. 23.63mg/L



Sample

Sample Name: 280-102152-b-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

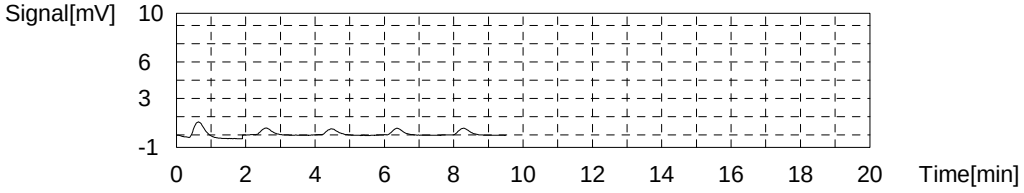
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1387mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.720	0.5602mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:57:51 AM
2	1.159	0.1420mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 6:59:55 AM
3	1.100	0.1262mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:01:59 AM
4	1.111	0.1292mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:04:03 AM
5	1.216	0.1573mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:06:07 AM

Mean Area 1.147
Mean Conc. 0.1387mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

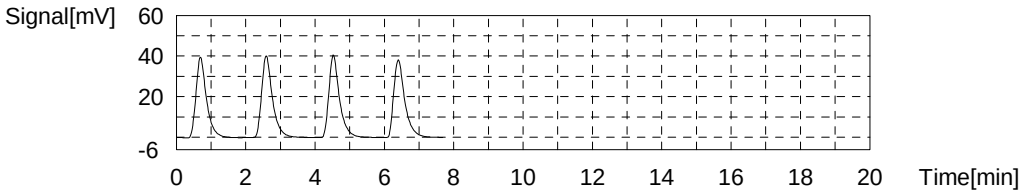
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:22.93mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	84.25	22.40mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:14:38 AM
2	87.67	23.32mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:16:45 AM
3	87.01	23.14mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:18:49 AM
4	85.94	22.86mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:20:55 AM

Mean Area 86.22
Mean Conc. 22.93mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

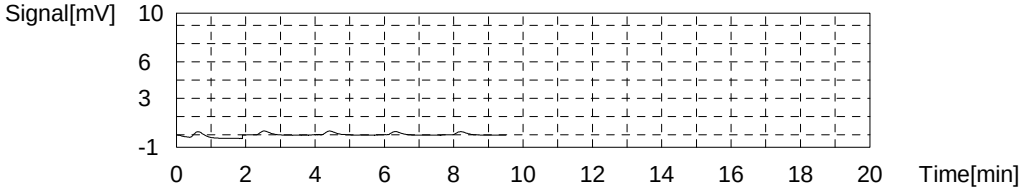
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.02467mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8715	0.06499mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:29:27 AM
2	0.5878	-0.01102mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:31:31 AM
3	0.5532	-0.02029mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:33:35 AM
4	0.5080	-0.03240mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:35:39 AM
5	0.4983	-0.03499mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:37:43 AM

Mean Area 0.5368
Mean Conc. -0.02467mg/L



Sample

Sample Name: 280-102152-b-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

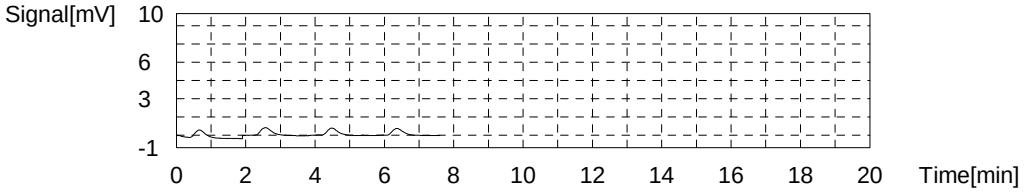
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1620mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.209	0.1554mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:46:14 AM
2	1.366	0.1975mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:48:18 AM
3	1.194	0.1514mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:50:22 AM
4	1.165	0.1436mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 7:52:26 AM

Mean Area 1.234
Mean Conc. 0.1620mg/L



Sample

Sample Name: 280-102152-b-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

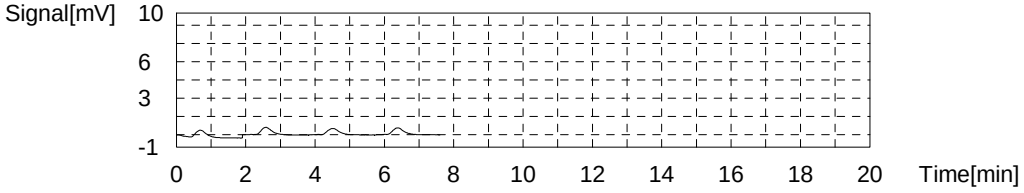
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1447mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.136	0.1359mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:00:58 AM
2	1.235	0.1624mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:03:02 AM
3	1.137	0.1361mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:05:06 AM
4	1.168	0.1444mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:07:10 AM

Mean Area 1.169
Mean Conc. 0.1447mg/L



Sample

Sample Name: 280-102152-b-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

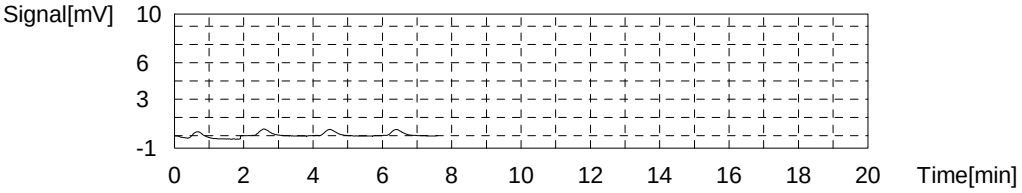
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1267mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.068	0.1176mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:15:43 AM
2	1.150	0.1396mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:17:47 AM
3	1.134	0.1353mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:19:51 AM
4	1.056	0.1144mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:21:55 AM

Mean Area 1.102
Mean Conc. 0.1267mg/L



Sample

Sample Name: 280-102152-b-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

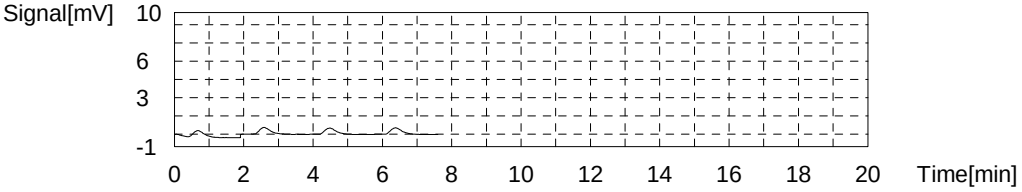
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1346mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.047	0.1120mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:30:28 AM
2	1.158	0.1418mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:32:32 AM
3	1.141	0.1372mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:34:36 AM
4	1.179	0.1474mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:36:40 AM

Mean Area 1.131
Mean Conc. 0.1346mg/L



Sample

Sample Name: 280-102152-b-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

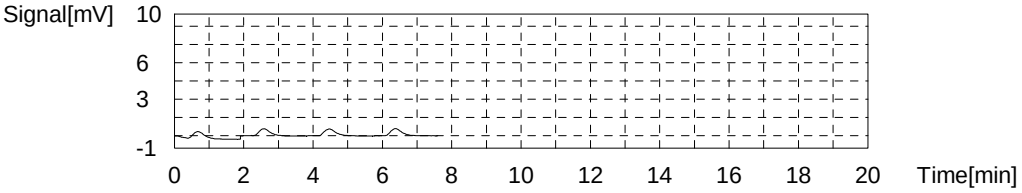
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1509mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.139	0.1367mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:45:13 AM
2	1.224	0.1594mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:47:17 AM
3	1.192	0.1509mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:49:21 AM
4	1.214	0.1568mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:51:25 AM

Mean Area 1.192
Mean Conc. 0.1509mg/L



Sample

Sample Name: 280-102152-b-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

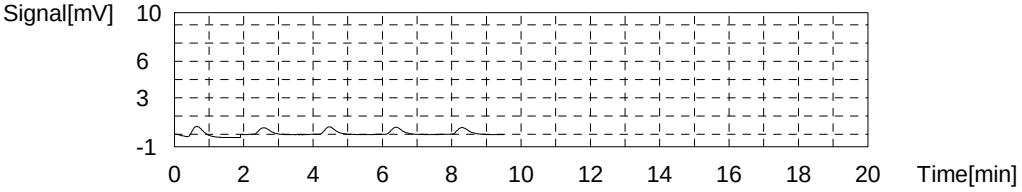
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1704mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.850	0.3271mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 8:59:58 AM
2	1.238	0.1632mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:02:02 AM
3	1.313	0.1833mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:04:06 AM
4	1.297	0.1790mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:06:10 AM
5	1.212	0.1562mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:08:14 AM

Mean Area 1.265
Mean Conc. 0.1704mg/L



Sample

Sample Name: 280-102152-b-10
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

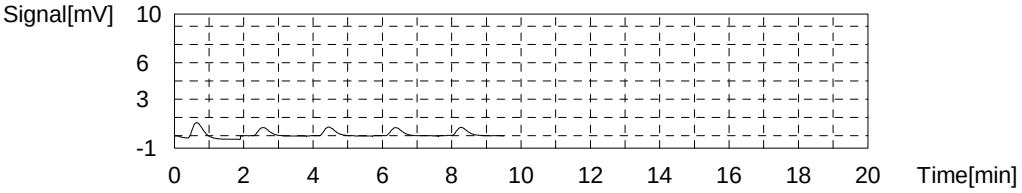
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2327mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.752	0.5688mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:16:46 AM
2	1.551	0.2470mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:18:50 AM
3	1.557	0.2486mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:20:54 AM
4	1.483	0.2288mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:22:58 AM
5	1.399	0.2063mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:25:02 AM

Mean Area 1.498
Mean Conc. 0.2327mg/L



Sample

Sample Name: 280-102152-b-11
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

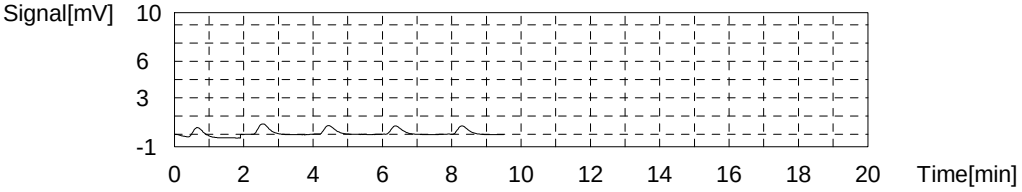
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2351mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.569	0.2519mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:33:34 AM
2	1.918	0.3454mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:35:38 AM
3	1.520	0.2387mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:37:42 AM
4	1.495	0.2320mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:39:46 AM
5	1.442	0.2178mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:41:50 AM

Mean Area 1.507
Mean Conc. 0.2351mg/L



Sample

Sample Name: 280-102152-b-12
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

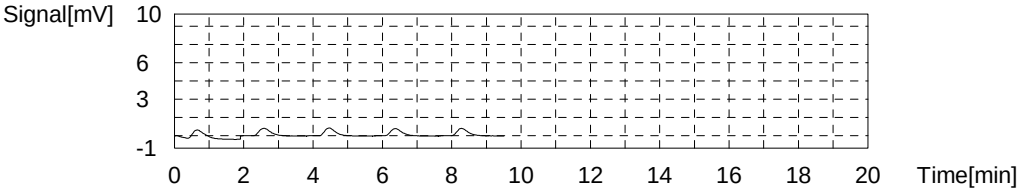
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1870mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.573	0.2529mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:50:22 AM
2	1.371	0.1988mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:52:26 AM
3	1.381	0.2015mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:54:30 AM
4	1.253	0.1672mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:56:34 AM
5	1.302	0.1803mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 9:58:38 AM

Mean Area 1.327
Mean Conc. 0.1870mg/L



Sample

Sample Name: 280-102152-f-13
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

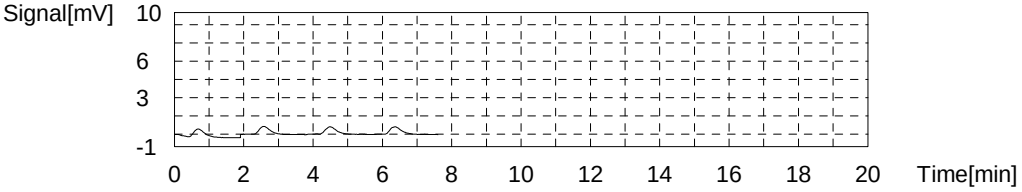
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1880mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.346	0.1921mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:07:10 AM
2	1.347	0.1924mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:09:14 AM
3	1.252	0.1669mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:11:18 AM
4	1.378	0.2007mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:13:22 AM

Mean Area 1.331
Mean Conc. 0.1880mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

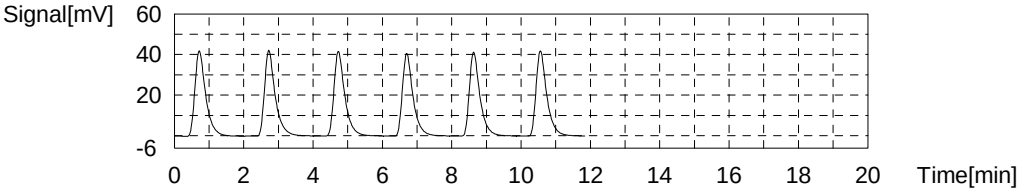
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.24mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	91.93	24.46mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:22:03 AM
2	90.97	24.20mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:24:11 AM
3	90.72	24.14mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:26:22 AM
4	87.20	23.19mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:28:27 AM
5	87.72	23.33mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:30:32 AM
6	90.79	24.16mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:32:41 AM

Mean Area 91.10
Mean Conc. 24.24mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

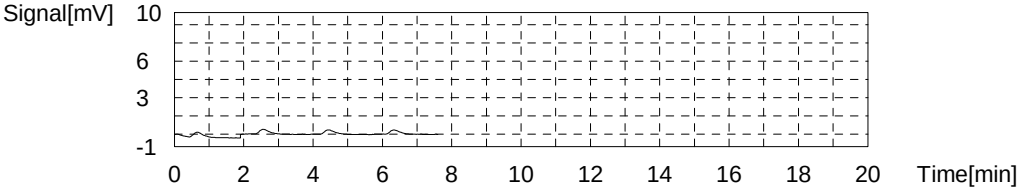
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.02436mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7244	0.02558mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:41:07 AM
2	0.7514	0.03282mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:43:11 AM
3	0.7312	0.02740mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:45:15 AM
4	0.6724	0.01165mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:47:19 AM

Mean Area 0.7198
Mean Conc. 0.02436mg/L



Sample

Sample Name: MS 280-102152-f-13
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

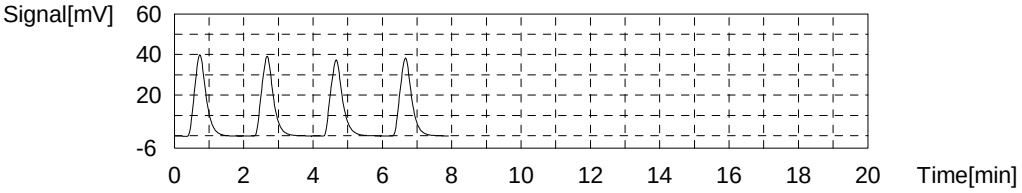
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.32mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	93.10	24.77mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:55:55 AM
2	92.63	24.65mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 10:58:05 AM
3	90.22	24.00mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:00:14 AM
4	89.59	23.83mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:02:22 AM

Mean Area 91.39
Mean Conc. 24.32mg/L



Sample

Sample Name: MSD 280-102152-f-13
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

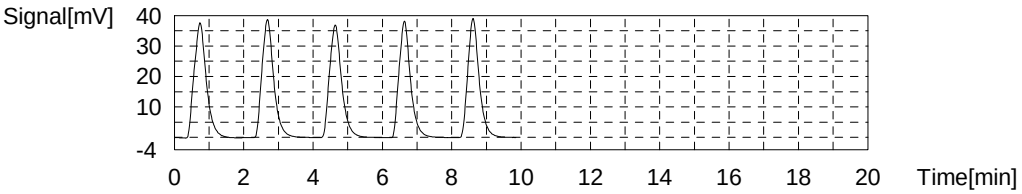
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.95mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	93.65	24.92mg/L	50uL	1	E	TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:10:58 AM
2	91.50	24.35mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:13:04 AM
3	90.84	24.17mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:15:16 AM
4	88.18	23.46mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:17:23 AM
5	89.50	23.81mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:19:32 AM

Mean Area 90.00
Mean Conc. 23.95mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

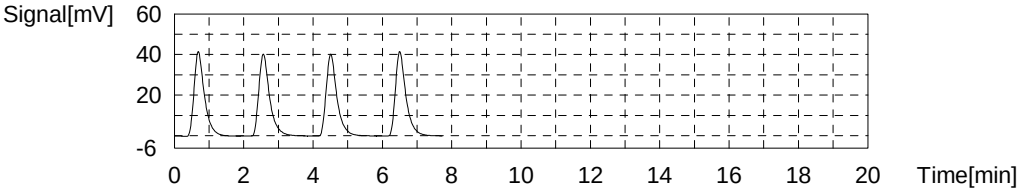
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.35mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.31	23.22mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:28:04 AM
2	87.87	23.37mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:30:10 AM
3	87.91	23.38mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:32:19 AM
4	87.99	23.41mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:34:23 AM

Mean Area 87.77
Mean Conc. 23.35mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

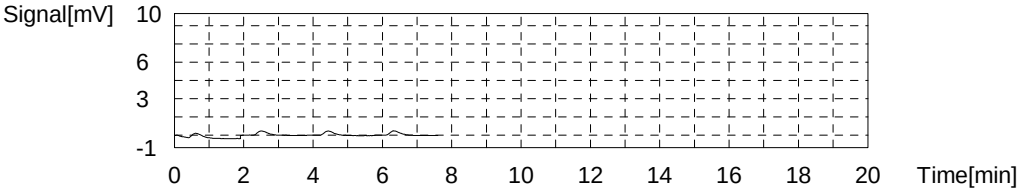
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.00649mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5989	-0.00804mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:42:56 AM
2	0.6963	0.01805mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:45:00 AM
3	0.6425	0.00364mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:47:04 AM
4	0.6748	0.01229mg/L	50uL	1		TOC3.2017_10_26_15_52_21.cal	10/27/2017 11:49:08 AM

Mean Area 0.6531
Mean Conc. 0.00649mg/L



TOC-V Cal Curve Information
C:¥TOC3201¥CalCurves¥TOC3.2017_10_26_15_52_21.cal

Date of Creation 5:05:46 PM 10/26/2017
User cj
System TOC-V cpn 3

Cal. Curve

Sample Name: CAL 110716
Sample ID: Untitled
Object ID 0A-103108-04335027-133C91225CDF-0000
Cal. Curve: TOC3.2017_10_26_15_52_21.cal
Status Completed
Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.6477	50uL	1	*******	E	10/26/2017 4:00:15 P
2	0.4323	50uL	1	*******		10/26/2017 4:02:18 P
3	0.5035	50uL	1	*******		10/26/2017 4:04:22 P

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 0.4679
SD Area 0.05035
CV Area 10.76%
Vial 69

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.513	50uL	1	*******	E	10/26/2017 4:12:53 P
2	4.292	50uL	1	*******		10/26/2017 4:14:57 P
3	4.393	50uL	1	*******		10/26/2017 4:17:01 P

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 4.342
SD Area 0.07142
CV Area 1.64%
Vial 70

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	20.06	50uL	1	*******		10/26/2017 4:25:36 P
2	19.29	50uL	1	*******		10/26/2017 4:27:46 P
3	18.48	50uL	1	*******	E	10/26/2017 4:29:50 P

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 19.68
SD Area 0.5445
CV Area 2.77%
Vial 71

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	37.24	50uL	1	*******		10/26/2017 4:38:33 P
2	38.23	50uL	1	*******		10/26/2017 4:40:49 P

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 37.73
SD Area 0.7000
CV Area 1.86%
Vial 72

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	93.46	50uL	1	*******		10/26/2017 4:49:40 P
2	94.46	50uL	1	*******		10/26/2017 4:52:05 P

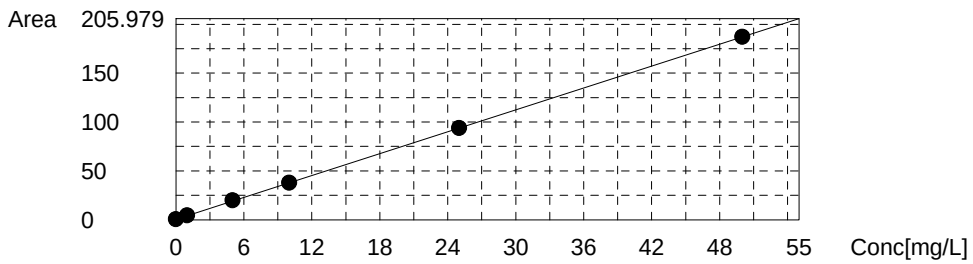
Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 93.96
SD Area 0.7071
CV Area 0.75%
Vial 73

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.4	50uL	1	*******	E	10/26/2017 5:01:05 P
2	190.3	50uL	1	*******		10/26/2017 5:03:25 P
3	184.2	50uL	1	*******		10/26/2017 5:05:46 P

Acid Add. 0.000%
Sp. Time 90.00sec
Mean Area 187.3
SD Area 4.313
CV Area 2.30%
Vial 74

Slope: 3.732
Intercept 0.6289
r^2 1.0000
r 1.0000
Zero Shift No



Subcontract Data

Shipping and Receiving Documents

leidos

301 Laboratory Road, Oak Ridge, Tennessee 37831(865) 482-9031

CHAIN OF CUSTODY RECORD

COC NO.:

PROJECT NAME: Stratton ANGB, NY

PROJECT NUMBER: 314561.00.04.8002.940

PROJECT MANAGER: Mike Poligone

Sampler (Signature) (Printed Name) Michael Doyette

REQUESTED PARAMETERS

LABORATORY NAME: Test America

LABORATORY ADDRESS: 4955 Yarrow Street, Arvada, CO 80002

POC: Donna Rydberg

PHONE NO: 303-736-0165

Sample ID	Date Collected	Time Collected	Matrix	1 (VOC)	2 (TOC)	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
6MW2006	10/17/17	10:00	GW	X	X	4		
6MW2006D	10/17/17	10:00	GW	X		3		
6MW2006 MS	10/17/17	10:00	GW	X		3		
6MW2006 MSD	10/17/17	10:00	GW	X		3		
6MW2206	10/17/17	11:10	GW	X	X	4		
6MW2306	10/17/17	11:55	GW	X	X	4		
6MW2406	10/17/17	12:40	GW	X	X	4		
6MW2506	10/17/17	13:40	GW	X	X	4		
6MW2606	10/17/17	14:25	GW	X	X	4		
TB07	10/17/17	14:45	QC	X		3		
FB03	10/17/17	14:50	QC	X		3		

280-102516 Chain of Custody

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
	10/17/17	Karl Loder	10/17/17
COMPANY NAME: Aztech	15:40	COMPANY NAME: Test America	1540
RECEIVED BY:	Date/Time	RELINQUISHED BY: Karl Loder	Date/Time 10/17/17
COMPANY NAME:		COMPANY NAME: Test America	1800
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time 10-18-17
COMPANY NAME:		COMPANY NAME: TAD	0630

TOTAL NUMBER OF CONTAINERS: 36

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

Standard TAT

Project Number 28015159

1 3 - 40 ml Vials, HCL to pH < 2, 4C

2 1 - 250 ml Amber Glass, H2SO4 to pH < 2, 4C

kolo.1 IR#7 transferred by 35 10-18-17

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record



280-102516 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna F	COC No: 280-416118.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA; NELAP - Florida; NELAP - New Hampshire ...	Job #: 280-102516-1
Address: 13715 Rider Trail North,	Due Date Requested: 11/6/2017		
City: Earth City	TAT Requested (days):		
State, Zip: MO, 63045	PO #:		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:		
Email:			
Project Name: Stratton ANGB, NY (Schenectady)	Project #: 28015159		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
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_DOD/5030C VOCs - TA St. Louis (for NY samples)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
6MW2006 (280-102516-1)	10/17/17	10:00 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2006MS (280-102516-1MS)	10/17/17	10:00 Eastern	MS	Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2006MSD (280-102516-1MSD)	10/17/17	10:00 Eastern	MSD	Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2006D (280-102516-2)	10/17/17	10:00 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2206 (280-102516-3)	10/17/17	11:10 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2306 (280-102516-4)	10/17/17	11:55 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2406 (280-102516-5)	10/17/17	12:40 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2506 (280-102516-6)	10/17/17	13:40 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2606 (280-102516-7)	10/17/17	14:25 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 out 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 *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *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: 10/19/17 1650	Company: TAL	Received by:	Date/Time: 10.20.17/0915	Company: TASTLouis
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-416118.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA; NELAP - Florida; NELAP - New Hampshire ...		Job #: 280-102516-1
Address: 13715 Rider Trail North,	Due Date Requested: 11/6/2017			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Stratton ANGB, NY (Schenectady)	Project #: 28015159			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, 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:
			Preservation Code:						
TB07 (280-102516-8)	10/17/17	14:45 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
FB03 (280-102516-9)	10/17/17	14:50 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 out 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 *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *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: 10/19/17 1650	Company TAD	Received by:		Date/Time: 10.20.17 0915	Company TASTL	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 280-102516-1

Login Number: 102516
List Number: 1
Creator: True, Joshua A

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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 <6mm (1/4").	N/A	
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: 280-102516-1

Login Number: 102516
List Number: 2
Creator: McKinney, Gerrod E

List Source: TestAmerica St. Louis
List Creation: 10/21/17 11:47 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	2.0
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	Received project as a subcontract.
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.	False	Sample 280-102516-A-2's VOA vial was received broken.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

LEIDOS
Laboratory Data Verification Checklist

Project: Stratton

SDG No: J102516

Analyte Group: Select VOCs
Sample Matrix: Aqueous
EDD (Y/N):

Disposition of Data Package:
NCR No. (if applicable):

1. Case Narrative

Read SDG Case Narrative	Y
Check Laboratory sample ID vs. Project sample ID lists	Y
Check that discussion covers each analytical type included in the SDG	Y
Check for identified nonconforming items (e.g., missed holding times, etc.)	Y

2. Chain-of-Custody (COC)

Check COC sample collection, shipping, and receiving dates	Y
Check that COC signature blocks are complete	Y
Check COC project sample IDs vs. Lab IDs and Result Form IDs	Y
Match COC requested analyses with Case Narrative and with data package content (Result Forms)	Y

3. Analytical Results Form

Verify that a Result Form is present for each sample and analysis	Y
On each Result Form check:	
SDG No.	Y
Sample ID	Y
Lab ID	Y
Date Collected	Y
Date Extracted	Y
Date Analyzed	Y
Result Matrix	Y
Result Units	Y

4. Project Verification

Check project analyte list vs. analytes reported	Y
Select VOCs include cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene, and Vinyl chloride	
Check project requested methods vs. analytical methods performed	Y
Check analyte reporting levels vs. project reporting level goals	Y

5. Analytical Quality Control Information

Check for surrogate recovery results (e.g., org. form II)		Y
Check for LCS results (e.g., org. form III, inorg. form XII)		Y
Check for method blank results (e.g., org. form IV, inorg. form III)		Y
Check for MS/MSD results (e.g., inorg. form V)		Y
Check for laboratory duplicate results (e.g., inorg. form VI)		NA
Check for Method Calibration and Run Documentation		
organic:	instrument performance check	y
	initial calibration data	y
	continuing calibration data	y
	internal standard areas	y
	internal standard retention times	y
	sample clean-up documentation	y
	(org. forms V through X)	
metal:	initial calibration data	
	continuing calibration data	
	method detection limits	
	method linear range	
	sample run sequence	
	(inorg. forms II, IV, and VIII through XIV)	
other:	initial calibration data	
	continuing calibration data	
	method detection limits	
	sample run sequence	

6. Incorrect Information

Identify missing items or incorrect information (i.e., missing forms, unsigned forms, incorrect sample IDs, etc.)

Contact the laboratory or project personnel to obtain missing information or correct information

Document corrections below:

7. Nonconforming Items

Document all nonconforming items that can not be resolved above in a Non-Conformance Report (NCR), complete form, file, and follow-up

NCR # Item

Reviewed By: Joseph C Peters Date: 11/21/17

QA Review By: Per PM request, self QA review was performed Date: 11/21/17

LEIDOS
Laboratory Data Package Detail Form

Project: Stratton

SDG No: J102516

Analyte Group: Select VOCs

See attached

Field Sample ID	Lab ID #	Matrix	Analysis	Notes:

Comments:

Sample Summary

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

TestAmerica Job ID: 280-102516-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-102516-1	6MW2006	Water	10/17/17 10:00	10/18/17 08:30
280-102516-2	6MW2006D	Water	10/17/17 10:00	10/18/17 08:30
280-102516-3	6MW2206	Water	10/17/17 11:10	10/18/17 08:30
280-102516-4	6MW2306	Water	10/17/17 11:55	10/18/17 08:30
280-102516-5	6MW2406	Water	10/17/17 12:40	10/18/17 08:30
280-102516-6	6MW2506	Water	10/17/17 13:40	10/18/17 08:30
280-102516-7	6MW2606	Water	10/17/17 14:25	10/18/17 08:30
280-102516-8	TB07	Water	10/17/17 14:45	10/18/17 08:30
280-102516-9	FB03	Water	10/17/17 14:50	10/18/17 08:30

Select VOCs

TOC

TOC

Only select VOCs require validation

LEIDOS
Organic Data Review Checklist

Project: Stratton

SDG No: J102516

Analysis: Select VOCs

Method: SW 8260C

Laboratory: TestAmerica

Matrix: Aqueous

The above data package has been reviewed and the analytical quality control/quality assurance performance data have been summarized. The general criteria used to assess the analytical integrityof the data were based on an examination of the following:

Case Narrative	Analytical Surrogate Recoveries
Analytical Holding Times	Internal Standard Performance
Sample Preservation	MS/MSD Recoveries and Differences
Method Calibration	LCS Recoveries
Method and Project Blanks	Re-analysis and Secondary Dilution

Project Specific QA/QC or contract requirements may take priority over validation criteria in this procedure.

Overall Remarks: DOD QSM 5.0 and QAPP guidance

Some samples qualified as estimated for select VOCs due to headspace bubbles > 6 mm in diameter. No other QA discrepancies noted.

Select VOCs that required validation = cis-1,2-Dichloroethene, tetrachloroethene, trichloroethene, and vinyl chloride

Definition of Qualifiers:

"U", not detected at the associated level
"UJ", not detected and associated value estimated
"J", associated value estimated
"R", associated value unusable or analyte identity unfounded
"=", compound properly identified and value positive

Reviewed by: Joseph C Peters Date: 11/21/17

QA Reviewed by: Per PM request, self QA review was performed Date: 11/21/17

I. Case Narrative

Verify direct statements made within the Laboratory Case Narrative (note discrepancies).

Remarks: No discrepancies

II. Re-analysis and Secondary Dilutions

Verify that re-analysis and secondary dilutions were performed and reported as necessary. Determine appropriate results to report.

Remarks: None required

III. Holding Times

VOC - Waters - unpreserved: aromatic within 7 days, non-aromatic within 14 days of sample collection
VOC - Waters - preserved: aromatic and non-aromatic within 14 days of sample collection
VOC - Soils - preserve or analyze within 48 hours of sample collection; analyze within 14 days of preservation

SVOC, Pest., PCB - Waters - extract within 7 days of sample collection, analyze within 40 days of extraction
SVOC, Pest., PCB - Soils - extract within 14 days of sample collection, analyze within 40 days of extraction

Deviations: None; see below regarding headspace exceeding acceptable limits

Sample #	VOC		SVOC			Pest/PCB		
	Date Collected	Date Analyzed	Date Collected	Date Extracted	Date Analyzed	Date Collected	Date Extracted	Date Analyzed

Actions:
1. If holding times are exceeded, all results are qualified as estimated (J/UJ)
2. If holding times are exceeded by more than 2X, reviewer may qualify non-detected results as unusable (R)

Remarks: 6MW2006 (516-1), 6MW2206 (516-3), MW2506 (516-6), 6MW2606 (516-7) had significant headspace, defined as a air bubble greater than 6 mm in diameter. This could result in slightly low bias in sample results. Therefore, the select VOCs in the affected samples were qualified as estimated (J/UJ) with reason code A06

IV. System Monitoring Compounds (SMC) Recoveries (VOC, SVOC, Pesticides, PCBs)

List SMC compounds with unacceptable recoveries:

Note: SMC formerly known as surrogates.

Deviations: None

Sample #	VOC			SVOC B/N Compounds			SVOC Acid Compounds			Pest	PCB
	TOL	BFB	DCE	NBZ	FBP	TPH	PHL	2FP	TBP	TCX	DCB
QC Limits											

Actions:

1. If any SMC recovery is <10%, qualify all positive results in associated fractions as estimated (J)
2. If any SMC recovery is <10%, qualify all nondetects in associated fractions as unusable (R)
3. If SMC recoveries fall between 10% and the lower recovery limit, qualify results as estimated (J/UJ)
4. If SMC recoveries fall above the upper recovery limit, qualify positive results as estimated (J)
5. Use professional judgement to qualify Pest/PCB results when SMC recoveries are >10%
6. Use professional judgement to qualify results when SMC recoveries have been diluted out of spec.
7. For SVOC, qualification of the data is required only when 2 or more SMC per fraction are not within control limits

Remarks: _____

V. Internal Standards Performance (VOC, SVOC)

VOC internal standard area counts within -50% to +100% of standard (Y/N)
VOC internal standard retention times within ± 30 seconds of standard (Y/N)

SVOC internal standard area counts within -50% to +100% of standard (Y/N)
SVOC internal standard retention times within + 30 seconds of standard (Y/N)

Deviations: None

Sample #	IS Affected	Area Counts	Acceptable Range	RT	Std. RT Value

Actions:
1. If area counts are outside limits, qualify positive results associated with that IS as estimated (J)
2. Non-detected compounds quantitated using an IS area count >100% should not be qualified
3. Non-detected compounds quantitated using an IS area count <50%, qualify as estimated (UJ)
4. If extremely low area counts are reported (<50% of the lower limit), qualify non-detects as unusable (R)
5. If an IS retention time varies more than 30 seconds, review the chromatographic profile for shifts and irregularities. Use professional judgement to qualify the data estimated (J/UJ) or unusable (R)

Remarks: _____

VI. Blanks

All blanks were reported per matrix per concentration level for each 12 hour period on each GC/ MS system used to analyze VOCs and SVOCs Yes / No

Review associated laboratory and project blank samples. List documented contamination below:

Laboratory Method Blanks: No contamination found in the MB for the select VOC compounds.

Date:	Lab ID #	Fraction	Compound	Conc. (ppb)

Associated Project Blanks (e.g., equipment rinsates, trip blanks, etc.)

None of the select target VOCs were detected in the field blank or trip blank.

Date	Lab ID #	Fraction	Compound	Conc. (ppb)

Remarks:

VI. Blanks (continued)

Calculate action levels based on 10X the highest blank concentration of "common laboratory solvents", VOCs (methylene chloride, acetone, toluene, 2-butanone, cyclohexane) or SVOCs (phthalates), and 5X the highest blank concentration for all other VOC, SVOC, Pesticides, and PCB compounds. Sample weights, volumes, and dilution factors must be taken into account when applying the 5X and 10X criteria. This allows the total amount of contaminant present to be considered.

Deviations: None

Compound	Maximum Conc. Detected, (ppb)	Action Level (ppb)	Samples Affected

Actions:

1. If compound results exceed the action levels, the data are not qualified
2. If compound results are below the required reporting level, report results as non-detect (U) at the reporting level
3. If the compound is detected above the reporting level, but below the action level, qualify as not-detected (U)
4. If gross contamination exists in blanks (i.e.,, saturated peaks by GC/ MS), all affected compounds in the associated samles should be qualifed as unusable (R) due to interference.
5. If blanks were not analyzed per matrix per concentration level for each 12 hour period on each GC/MS system used to analyze VOCs and SVOCs use professional judgement to qualifty data. Data may be rejected (R).

Remarks: _____

VII. Initial & Contining Calibration (VOC, SVOC)

GC/MS instrument performance checks (BFB / DFTPP) Acceptable Y or N
All compounds must have and RRF > 0.01, %RSD < 30, and %D < 25

VOC - Date of initial calibration: 9/14/17 - 9/15/17
VOC - Date(s) of continuing calibration: 10/24/17 10/25/17
Was the 12 hour critieria met? Y or N Y

SVOC- Date of initial calibration:
SVOC - Date(s) of continuing calibration:
Was the 12 hour critieria met? Y or N

Deviations: None

Compound	Date	RRF	%RSD	%D	Samples Affected

Actions:

1. If any compound has an intial or continuing RRF of < 0.01, qualify positive results as estimated (J)
2. If any compound has an intial or continuing RRF of < 0.01, qualify non-detects as unusable (R)
3. If any compound has a %RSD >30 or a %D >25, qualify positive results as estimated (J)
4. If any compound has a %RSD >40 or a %D >40, qualify non-detects as estimated (UJ)
5. If BFB or DFTPP mass assignment / ION abundance criteria are all associated data as unusable (R).
6. If samples were analyzed outside the 12 hour BFB or DFTPP performance check time period, qualify the affected sample data as estimated (J/UJ).
7. If separate calibration for water and soil were not performed, use professional judgement to evaluate the data. Data may be rejected (R).
8. If calibrations were not completed within the 12 hour criterion, qualifty all associated data as estimated (J/UJ). If the 12 hour criterion was grossly exceeded, reject all associated data (R).

Remarks:

VIII. Initial & Continuing Calibration (Pesticides, PCBs)

Linearity evaluation, are %RSD <20? NA Yes or No

Is the RPD between calibration factors ≤25? Yes or No

Are multicomponent calibration data provided for each analysis date? Yes or No

Is the difference between columns check ≤ 25%D? Yes or No

Are 4, 4'- DDT and endrin breakdown (PEM) ≤ 20% and combined breakdown ≤ 30% Yes or No

Deviations:

Compound	%RSD	RPD	Samples Affected

Actions:

1. If %RSD criteria are not met, qualify positive results as estimated (J) and non-detects as estimated (UJ)
2. If RPD criteria are not met, qualify positive results as estimated (J) and non-detects as estimated (UJ)
3. If %D criteria is not met, qualify positive results as estimated (J) and non-detects as estimated (UJ)
4. If breadkwon criteria are not met, positive 4, 4'-DDT and endrin should be qualified as estimated (J). And non-detects should be rejected (R).

Remarks: _____

IX. Matrix Spike/Matrix Spike Duplicate Information

General MS/MSD Criteria:

	VOC	SVOC	Pest	PCB
percent recovery (%R)	70-130	45-135	40-140	40-140
relative percent difference (RPD)	<30	<50	<50	<50

Project Sample(s) Spiked: 6MW2006, 6MW2606

Deviations: None

Compound	%R	%R Limits	RPD	RPD Limits	Samples Affected

Actions:

1. If the spike recovery is above the upper control limit (UCL), qualify all positive values in the unspiked sample as estimated (J) and non-detects as estimated (UJ).
2. If the spike recovery is below the lower control limit (LCL), qualifty positive values as estimated (J). And non-detects as estimated (UJ) in the unspiked sample.
3. If the spike recovery is <10%, qualify non-detect values as unusable (R)
4. If the RPD does not meet criteria, qualify positive values in the unspiked sample as estimated (J)
5. Use professional judgement to qualify additional samples in the analytical group based on MS/MSD results
6. Use professional judgement for qualification of data for unspiked compounds

Remarks:

X. Laboratory Control Sample Information

General LCS Criteria:
percent recovery (%R)

VOC	SVOC	Pest	PCB
80-120	60-120	50-130	50-130

Laboratory LCS Identifications: LCS/LCSD 160-333931/4, /5; 160-333745/4, /5

Deviations: None

Compound	Date	%R	Samples Affected/Qualifiers Applied

Actions:

Action should be based on both the number of compounds outside the criterion and the magnitude of the exceedance.

1. If the LCS recovery is below limits but > one- half the lower limit, qualify valves as estimated (J/UJ).
2. If the LCS recovery is < one-half the lower limit, qualify all data for that analyte as unusable (R).
3. If the LCS recovery is greater than the upper limit, qualify positive valves for that analyte as estimated (J).
4. If more than half the compounds in this LCS are not within recovery criteria, then qualify associated detected compounds as estimated (J).
5. Use professional judgement for qualification of data for compounds with no LCS information

Remarks:

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

Client Sample ID: 6MW2006 **Lab Sample ID: 280-102516-1**
Date Collected: 10/17/17 10:00 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/24/17 22:55	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/24/17 22:55	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/24/17 22:55	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/24/17 22:55	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/24/17 22:55	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/24/17 22:55	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/24/17 22:55	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/24/17 22:55	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/24/17 22:55	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/24/17 22:55	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/24/17 22:55	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/24/17 22:55	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/24/17 22:55	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/24/17 22:55	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/24/17 22:55	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/24/17 22:55	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/24/17 22:55	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/24/17 22:55	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/24/17 22:55	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/24/17 22:55	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/24/17 22:55	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/24/17 22:55	1
Acetone	10	U	20	6.7	ug/L			10/24/17 22:55	1
Benzene	1.0	U	5.0	0.25	ug/L			10/24/17 22:55	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/24/17 22:55	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/24/17 22:55	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/24/17 22:55	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/24/17 22:55	1
Bromomethane	2.0	U	10	0.40	ug/L			10/24/17 22:55	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/24/17 22:55	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/24/17 22:55	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/24/17 22:55	1
Chloroethane	1.0	U	10	0.38	ug/L			10/24/17 22:55	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/24/17 22:55	1
Chloromethane	2.0	U	10	0.55	ug/L			10/24/17 22:55	1
cis-1,2-Dichloroethene	1.0	U UJ A06	5.0	0.16	ug/L			10/24/17 22:55	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/24/17 22:55	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/24/17 22:55	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/24/17 22:55	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/24/17 22:55	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/24/17 22:55	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/24/17 22:55	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/24/17 22:55	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/24/17 22:55	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/24/17 22:55	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/24/17 22:55	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/24/17 22:55	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/24/17 22:55	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/24/17 22:55	1

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

Client Sample ID: 6MW2006 **Lab Sample ID: 280-102516-1**
Date Collected: 10/17/17 10:00 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/24/17 22:55	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/24/17 22:55	1
Styrene	1.0	U	5.0	0.35	ug/L			10/24/17 22:55	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/24/17 22:55	1
Tetrachloroethene	1.0	U UJ A06	5.0	0.28	ug/L			10/24/17 22:55	1
Toluene	1.0	U	5.0	1.0	ug/L			10/24/17 22:55	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/24/17 22:55	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/24/17 22:55	1
Trichloroethene	1.0	U UJ A06	5.0	0.29	ug/L			10/24/17 22:55	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/24/17 22:55	1
Vinyl chloride	1.0	U UJ A06	5.0	0.43	ug/L			10/24/17 22:55	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/24/17 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*81 - 118*		*10/24/17 22:55*	*1*
4-Bromofluorobenzene (Surr)	*91*		*85 - 114*		*10/24/17 22:55*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 119*		*10/24/17 22:55*	*1*
Toluene-d8 (Surr)	*96*		*89 - 112*		*10/24/17 22:55*	*1*

Client Sample ID: 6MW2006D **Lab Sample ID: 280-102516-2**
Date Collected: 10/17/17 10:00 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/25/17 00:33	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/25/17 00:33	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/25/17 00:33	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/25/17 00:33	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/25/17 00:33	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/25/17 00:33	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/25/17 00:33	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/25/17 00:33	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/25/17 00:33	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/25/17 00:33	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/25/17 00:33	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/25/17 00:33	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/25/17 00:33	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/25/17 00:33	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/25/17 00:33	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/25/17 00:33	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/25/17 00:33	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/25/17 00:33	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/25/17 00:33	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/25/17 00:33	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/25/17 00:33	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/25/17 00:33	1
Acetone	10	U	20	6.7	ug/L			10/25/17 00:33	1
Benzene	1.0	U	5.0	0.25	ug/L			10/25/17 00:33	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/25/17 00:33	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/25/17 00:33	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/25/17 00:33	1

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

Client Sample ID: 6MW2006D **Lab Sample ID: 280-102516-2**
Date Collected: 10/17/17 10:00 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	1.0	U		5.0	0.37	ug/L			10/25/17 00:33	1
Bromomethane	2.0	U		10	0.40	ug/L			10/25/17 00:33	1
Carbon disulfide	1.0	U		5.0	0.37	ug/L			10/25/17 00:33	1
Carbon tetrachloride	1.0	U		5.0	0.36	ug/L			10/25/17 00:33	1
Chlorobenzene	1.0	U		5.0	0.38	ug/L			10/25/17 00:33	1
Chloroethane	1.0	U		10	0.38	ug/L			10/25/17 00:33	1
Chloroform	1.0	U		5.0	0.15	ug/L			10/25/17 00:33	1
Chloromethane	2.0	U		10	0.55	ug/L			10/25/17 00:33	1
cis-1,2-Dichloroethene	1.0	U	U	5.0	0.16	ug/L			10/25/17 00:33	1
cis-1,3-Dichloropropene	1.0	U		5.0	0.34	ug/L			10/25/17 00:33	1
Dibromochloromethane	1.0	U		5.0	0.33	ug/L			10/25/17 00:33	1
Dibromomethane	2.0	U		5.0	0.41	ug/L			10/25/17 00:33	1
Dichlorodifluoromethane	2.0	U		10	0.45	ug/L			10/25/17 00:33	1
Ethylbenzene	1.0	U		5.0	0.30	ug/L			10/25/17 00:33	1
Isopropylbenzene	2.0	U		5.0	0.26	ug/L			10/25/17 00:33	1
m,p-Xylenes	1.0	U		5.0	0.57	ug/L			10/25/17 00:33	1
Methyl tert-butyl ether	2.0	U		5.0	0.40	ug/L			10/25/17 00:33	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			10/25/17 00:33	1
Naphthalene	2.0	U		5.0	0.85	ug/L			10/25/17 00:33	1
n-Butylbenzene	2.0	U		5.0	0.23	ug/L			10/25/17 00:33	1
N-Propylbenzene	2.0	U		5.0	0.30	ug/L			10/25/17 00:33	1
o-Xylene	1.0	U		5.0	0.32	ug/L			10/25/17 00:33	1
p-Isopropyltoluene	2.0	U		5.0	0.32	ug/L			10/25/17 00:33	1
sec-Butylbenzene	2.0	U		5.0	0.31	ug/L			10/25/17 00:33	1
Styrene	1.0	U		5.0	0.35	ug/L			10/25/17 00:33	1
tert-Butylbenzene	2.0	U		5.0	0.31	ug/L			10/25/17 00:33	1
Tetrachloroethene	1.0	U	U	5.0	0.28	ug/L			10/25/17 00:33	1
Toluene	1.0	U		5.0	1.0	ug/L			10/25/17 00:33	1
trans-1,2-Dichloroethene	1.0	U		5.0	0.18	ug/L			10/25/17 00:33	1
trans-1,3-Dichloropropene	1.0	U		5.0	0.35	ug/L			10/25/17 00:33	1
Trichloroethene	1.0	U	U	5.0	0.29	ug/L			10/25/17 00:33	1
Trichlorofluoromethane	2.0	U		5.0	0.22	ug/L			10/25/17 00:33	1
Vinyl chloride	1.0	U	U	5.0	0.43	ug/L			10/25/17 00:33	1
Xylenes (total)	5.0	U		10	0.85	ug/L			10/25/17 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*81 - 118*		*10/25/17 00:33*	*1*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*		*10/25/17 00:33*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 119*		*10/25/17 00:33*	*1*
Toluene-d8 (Surr)	*109*		*89 - 112*		*10/25/17 00:33*	*1*

Client Sample ID: 6MW2206 **Lab Sample ID: 280-102516-3**
Date Collected: 10/17/17 11:10 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/25/17 00:58	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/25/17 00:58	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/25/17 00:58	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/25/17 00:58	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/25/17 00:58	1

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

Client Sample ID: 6MW2206 **Lab Sample ID: 280-102516-3**
Date Collected: 10/17/17 11:10 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U		5.0	0.37	ug/L			10/25/17 00:58	1
1,1-Dichloropropene	1.0	U		5.0	0.30	ug/L			10/25/17 00:58	1
1,2,3-Trichlorobenzene	2.0	U		5.0	0.65	ug/L			10/25/17 00:58	1
1,2,3-Trichloropropane	1.0	U		5.0	0.56	ug/L			10/25/17 00:58	1
1,2,4-Trimethylbenzene	2.0	U		5.0	0.40	ug/L			10/25/17 00:58	1
1,2-Dibromo-3-Chloropropane	2.0	U		10	1.2	ug/L			10/25/17 00:58	1
1,2-Dibromoethane	2.0	U		5.0	0.44	ug/L			10/25/17 00:58	1
1,2-Dichloroethane	1.0	U		5.0	0.37	ug/L			10/25/17 00:58	1
1,2-Dichloropropane	1.0	U		5.0	0.32	ug/L			10/25/17 00:58	1
1,3,5-Trimethylbenzene	2.0	U		5.0	0.28	ug/L			10/25/17 00:58	1
1,3-Dichloropropane	1.0	U		5.0	0.24	ug/L			10/25/17 00:58	1
2,2-Dichloropropane	2.0	U		5.0	0.54	ug/L			10/25/17 00:58	1
2-Butanone (MEK)	5.0	U		20	0.39	ug/L			10/25/17 00:58	1
2-Chlorotoluene	2.0	U		5.0	0.34	ug/L			10/25/17 00:58	1
2-Hexanone	2.0	U		20	0.59	ug/L			10/25/17 00:58	1
4-Chlorotoluene	2.0	U		5.0	0.31	ug/L			10/25/17 00:58	1
4-Methyl-2-pentanone (MIBK)	2.0	U		20	0.33	ug/L			10/25/17 00:58	1
Acetone	10	U		20	6.7	ug/L			10/25/17 00:58	1
Benzene	1.0	U		5.0	0.25	ug/L			10/25/17 00:58	1
Bromobenzene	2.0	U		5.0	0.33	ug/L			10/25/17 00:58	1
Bromochloromethane	2.0	U		5.0	0.55	ug/L			10/25/17 00:58	1
Bromodichloromethane	2.0	U		5.0	0.25	ug/L			10/25/17 00:58	1
Bromoform	1.0	U		5.0	0.37	ug/L			10/25/17 00:58	1
Bromomethane	2.0	U		10	0.40	ug/L			10/25/17 00:58	1
Carbon disulfide	1.0	U		5.0	0.37	ug/L			10/25/17 00:58	1
Carbon tetrachloride	1.0	U		5.0	0.36	ug/L			10/25/17 00:58	1
Chlorobenzene	1.0	U		5.0	0.38	ug/L			10/25/17 00:58	1
Chloroethane	1.0	U		10	0.38	ug/L			10/25/17 00:58	1
Chloroform	1.0	U		5.0	0.15	ug/L			10/25/17 00:58	1
Chloromethane	2.0	U		10	0.55	ug/L			10/25/17 00:58	1
cis-1,2-Dichloroethene	1.0	U	UJ A06	5.0	0.16	ug/L			10/25/17 00:58	1
cis-1,3-Dichloropropene	1.0	U		5.0	0.34	ug/L			10/25/17 00:58	1
Dibromochloromethane	1.0	U		5.0	0.33	ug/L			10/25/17 00:58	1
Dibromomethane	2.0	U		5.0	0.41	ug/L			10/25/17 00:58	1
Dichlorodifluoromethane	2.0	U		10	0.45	ug/L			10/25/17 00:58	1
Ethylbenzene	1.0	U		5.0	0.30	ug/L			10/25/17 00:58	1
Isopropylbenzene	2.0	U		5.0	0.26	ug/L			10/25/17 00:58	1
m,p-Xylenes	1.0	U		5.0	0.57	ug/L			10/25/17 00:58	1
Methyl tert-butyl ether	2.0	U		5.0	0.40	ug/L			10/25/17 00:58	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			10/25/17 00:58	1
Naphthalene	2.0	U		5.0	0.85	ug/L			10/25/17 00:58	1
n-Butylbenzene	2.0	U		5.0	0.23	ug/L			10/25/17 00:58	1
N-Propylbenzene	2.0	U		5.0	0.30	ug/L			10/25/17 00:58	1
o-Xylene	1.0	U		5.0	0.32	ug/L			10/25/17 00:58	1
p-Isopropyltoluene	2.0	U		5.0	0.32	ug/L			10/25/17 00:58	1
sec-Butylbenzene	2.0	U		5.0	0.31	ug/L			10/25/17 00:58	1
Styrene	1.0	U		5.0	0.35	ug/L			10/25/17 00:58	1
tert-Butylbenzene	2.0	U		5.0	0.31	ug/L			10/25/17 00:58	1
Tetrachloroethene	1.0	U	UJ A06	5.0	0.28	ug/L			10/25/17 00:58	1

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

Client Sample ID: 6MW2206 **Lab Sample ID: 280-102516-3**
Date Collected: 10/17/17 11:10 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**2.3**	**J**		5.0	1.0	ug/L			10/25/17 00:58	1
trans-1,2-Dichloroethene	1.0	U		5.0	0.18	ug/L			10/25/17 00:58	1
trans-1,3-Dichloropropene	1.0	U		5.0	0.35	ug/L			10/25/17 00:58	1
Trichloroethene	1.0	U	UJ A06	5.0	0.29	ug/L			10/25/17 00:58	1
Trichlorofluoromethane	2.0	U		5.0	0.22	ug/L			10/25/17 00:58	1
Vinyl chloride	1.0	U	UJ A06	5.0	0.43	ug/L			10/25/17 00:58	1
Xylenes (total)	5.0	U		10	0.85	ug/L			10/25/17 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*81 - 118*		*10/25/17 00:58*	*1*
4-Bromofluorobenzene (Surr)	*96*		*85 - 114*		*10/25/17 00:58*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 119*		*10/25/17 00:58*	*1*
Toluene-d8 (Surr)	*98*		*89 - 112*		*10/25/17 00:58*	*1*

Client Sample ID: 6MW2306 **Lab Sample ID: 280-102516-4**
Date Collected: 10/17/17 11:55 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/25/17 17:52	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/25/17 17:52	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/25/17 17:52	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/25/17 17:52	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/25/17 17:52	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/25/17 17:52	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/25/17 17:52	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/25/17 17:52	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/25/17 17:52	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/25/17 17:52	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/25/17 17:52	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/25/17 17:52	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/25/17 17:52	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/25/17 17:52	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/25/17 17:52	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/25/17 17:52	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/25/17 17:52	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/25/17 17:52	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/25/17 17:52	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/25/17 17:52	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/25/17 17:52	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/25/17 17:52	1
Acetone	10	U	20	6.7	ug/L			10/25/17 17:52	1
Benzene	1.0	U	5.0	0.25	ug/L			10/25/17 17:52	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/25/17 17:52	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/25/17 17:52	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/25/17 17:52	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/25/17 17:52	1
Bromomethane	2.0	U	10	0.40	ug/L			10/25/17 17:52	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/25/17 17:52	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/25/17 17:52	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/25/17 17:52	1

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

Client Sample ID: 6MW2306 **Lab Sample ID: 280-102516-4**
Date Collected: 10/17/17 11:55 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	1.0	U		10	0.38	ug/L			10/25/17 17:52	1
Chloroform	1.0	U		5.0	0.15	ug/L			10/25/17 17:52	1
Chloromethane	2.0	U		10	0.55	ug/L			10/25/17 17:52	1
cis-1,2-Dichloroethene	1.0	U	U	5.0	0.16	ug/L			10/25/17 17:52	1
cis-1,3-Dichloropropene	1.0	U		5.0	0.34	ug/L			10/25/17 17:52	1
Dibromochloromethane	1.0	U		5.0	0.33	ug/L			10/25/17 17:52	1
Dibromomethane	2.0	U		5.0	0.41	ug/L			10/25/17 17:52	1
Dichlorodifluoromethane	2.0	U		10	0.45	ug/L			10/25/17 17:52	1
Ethylbenzene	1.0	U		5.0	0.30	ug/L			10/25/17 17:52	1
Isopropylbenzene	2.0	U		5.0	0.26	ug/L			10/25/17 17:52	1
m,p-Xylenes	1.0	U		5.0	0.57	ug/L			10/25/17 17:52	1
Methyl tert-butyl ether	2.0	U		5.0	0.40	ug/L			10/25/17 17:52	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			10/25/17 17:52	1
Naphthalene	2.0	U		5.0	0.85	ug/L			10/25/17 17:52	1
n-Butylbenzene	2.0	U		5.0	0.23	ug/L			10/25/17 17:52	1
N-Propylbenzene	2.0	U		5.0	0.30	ug/L			10/25/17 17:52	1
o-Xylene	1.0	U		5.0	0.32	ug/L			10/25/17 17:52	1
p-Isopropyltoluene	2.0	U		5.0	0.32	ug/L			10/25/17 17:52	1
sec-Butylbenzene	2.0	U		5.0	0.31	ug/L			10/25/17 17:52	1
Styrene	1.0	U		5.0	0.35	ug/L			10/25/17 17:52	1
tert-Butylbenzene	2.0	U		5.0	0.31	ug/L			10/25/17 17:52	1
Tetrachloroethene	1.0	U	U	5.0	0.28	ug/L			10/25/17 17:52	1
Toluene	1.0	U		5.0	1.0	ug/L			10/25/17 17:52	1
trans-1,2-Dichloroethene	1.0	U		5.0	0.18	ug/L			10/25/17 17:52	1
trans-1,3-Dichloropropene	1.0	U		5.0	0.35	ug/L			10/25/17 17:52	1
Trichloroethene	1.0	U	U	5.0	0.29	ug/L			10/25/17 17:52	1
Trichlorofluoromethane	2.0	U		5.0	0.22	ug/L			10/25/17 17:52	1
Vinyl chloride	**1.1**	**J**	J	5.0	0.43	ug/L			10/25/17 17:52	1
Xylenes (total)	5.0	U		10	0.85	ug/L			10/25/17 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*81 - 118*		*10/25/17 17:52*	*1*
4-Bromofluorobenzene (Surr)	*92*		*85 - 114*		*10/25/17 17:52*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 119*		*10/25/17 17:52*	*1*
Toluene-d8 (Surr)	*100*		*89 - 112*		*10/25/17 17:52*	*1*

Client Sample ID: 6MW2406 **Lab Sample ID: 280-102516-5**
Date Collected: 10/17/17 12:40 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/25/17 18:26	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/25/17 18:26	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/25/17 18:26	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/25/17 18:26	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/25/17 18:26	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/25/17 18:26	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/25/17 18:26	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/25/17 18:26	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/25/17 18:26	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/25/17 18:26	1

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

Client Sample ID: 6MW2406 **Lab Sample ID: 280-102516-5**
Date Collected: 10/17/17 12:40 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	2.0	U		10	1.2	ug/L			10/25/17 18:26	1
1,2-Dibromoethane	2.0	U		5.0	0.44	ug/L			10/25/17 18:26	1
1,2-Dichloroethane	1.0	U		5.0	0.37	ug/L			10/25/17 18:26	1
1,2-Dichloropropane	1.0	U		5.0	0.32	ug/L			10/25/17 18:26	1
1,3,5-Trimethylbenzene	2.0	U		5.0	0.28	ug/L			10/25/17 18:26	1
1,3-Dichloropropane	1.0	U		5.0	0.24	ug/L			10/25/17 18:26	1
2,2-Dichloropropane	2.0	U		5.0	0.54	ug/L			10/25/17 18:26	1
2-Butanone (MEK)	5.0	U		20	0.39	ug/L			10/25/17 18:26	1
2-Chlorotoluene	2.0	U		5.0	0.34	ug/L			10/25/17 18:26	1
2-Hexanone	2.0	U		20	0.59	ug/L			10/25/17 18:26	1
4-Chlorotoluene	2.0	U		5.0	0.31	ug/L			10/25/17 18:26	1
4-Methyl-2-pentanone (MIBK)	2.0	U		20	0.33	ug/L			10/25/17 18:26	1
Acetone	10	U		20	6.7	ug/L			10/25/17 18:26	1
Benzene	1.0	U		5.0	0.25	ug/L			10/25/17 18:26	1
Bromobenzene	2.0	U		5.0	0.33	ug/L			10/25/17 18:26	1
Bromochloromethane	2.0	U		5.0	0.55	ug/L			10/25/17 18:26	1
Bromodichloromethane	2.0	U		5.0	0.25	ug/L			10/25/17 18:26	1
Bromoform	1.0	U		5.0	0.37	ug/L			10/25/17 18:26	1
Bromomethane	2.0	U		10	0.40	ug/L			10/25/17 18:26	1
Carbon disulfide	1.0	U		5.0	0.37	ug/L			10/25/17 18:26	1
Carbon tetrachloride	1.0	U		5.0	0.36	ug/L			10/25/17 18:26	1
Chlorobenzene	1.0	U		5.0	0.38	ug/L			10/25/17 18:26	1
Chloroethane	1.0	U		10	0.38	ug/L			10/25/17 18:26	1
Chloroform	1.0	U		5.0	0.15	ug/L			10/25/17 18:26	1
Chloromethane	2.0	U		10	0.55	ug/L			10/25/17 18:26	1
cis-1,2-Dichloroethene	**3.7**	**J**	J	5.0	0.16	ug/L			10/25/17 18:26	1
cis-1,3-Dichloropropene	1.0	U		5.0	0.34	ug/L			10/25/17 18:26	1
Dibromochloromethane	1.0	U		5.0	0.33	ug/L			10/25/17 18:26	1
Dibromomethane	2.0	U		5.0	0.41	ug/L			10/25/17 18:26	1
Dichlorodifluoromethane	2.0	U		10	0.45	ug/L			10/25/17 18:26	1
Ethylbenzene	1.0	U		5.0	0.30	ug/L			10/25/17 18:26	1
Isopropylbenzene	2.0	U		5.0	0.26	ug/L			10/25/17 18:26	1
m,p-Xylenes	1.0	U		5.0	0.57	ug/L			10/25/17 18:26	1
Methyl tert-butyl ether	2.0	U		5.0	0.40	ug/L			10/25/17 18:26	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			10/25/17 18:26	1
Naphthalene	2.0	U		5.0	0.85	ug/L			10/25/17 18:26	1
n-Butylbenzene	2.0	U		5.0	0.23	ug/L			10/25/17 18:26	1
N-Propylbenzene	2.0	U		5.0	0.30	ug/L			10/25/17 18:26	1
o-Xylene	1.0	U		5.0	0.32	ug/L			10/25/17 18:26	1
p-Isopropyltoluene	2.0	U		5.0	0.32	ug/L			10/25/17 18:26	1
sec-Butylbenzene	2.0	U		5.0	0.31	ug/L			10/25/17 18:26	1
Styrene	1.0	U		5.0	0.35	ug/L			10/25/17 18:26	1
tert-Butylbenzene	2.0	U		5.0	0.31	ug/L			10/25/17 18:26	1
Tetrachloroethene	1.0	U	U	5.0	0.28	ug/L			10/25/17 18:26	1
Toluene	1.0	U		5.0	1.0	ug/L			10/25/17 18:26	1
trans-1,2-Dichloroethene	1.0	U		5.0	0.18	ug/L			10/25/17 18:26	1
trans-1,3-Dichloropropene	1.0	U		5.0	0.35	ug/L			10/25/17 18:26	1
Trichloroethene	**1.6**	**J**	J	5.0	0.29	ug/L			10/25/17 18:26	1
Trichlorofluoromethane	2.0	U		5.0	0.22	ug/L			10/25/17 18:26	1

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

Client Sample ID: 6MW2406 **Lab Sample ID: 280-102516-5**
Date Collected: 10/17/17 12:40 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**9.1**	=	5.0	0.43	ug/L			10/25/17 18:26	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/25/17 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*81 - 118*		*10/25/17 18:26*	*1*
4-Bromofluorobenzene (Surr)	*90*		*85 - 114*		*10/25/17 18:26*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 119*		*10/25/17 18:26*	*1*
Toluene-d8 (Surr)	*98*		*89 - 112*		*10/25/17 18:26*	*1*

Client Sample ID: 6MW2606 **Lab Sample ID: 280-102516-7**
Date Collected: 10/17/17 14:25 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/25/17 19:30	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/25/17 19:30	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/25/17 19:30	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/25/17 19:30	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/25/17 19:30	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/25/17 19:30	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/25/17 19:30	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/25/17 19:30	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/25/17 19:30	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/25/17 19:30	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/25/17 19:30	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/25/17 19:30	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/25/17 19:30	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/25/17 19:30	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/25/17 19:30	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/25/17 19:30	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/25/17 19:30	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/25/17 19:30	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/25/17 19:30	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/25/17 19:30	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/25/17 19:30	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/25/17 19:30	1
Acetone	10	U	20	6.7	ug/L			10/25/17 19:30	1
Benzene	1.0	U	5.0	0.25	ug/L			10/25/17 19:30	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/25/17 19:30	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/25/17 19:30	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/25/17 19:30	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/25/17 19:30	1
Bromomethane	2.0	U	10	0.40	ug/L			10/25/17 19:30	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/25/17 19:30	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/25/17 19:30	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/25/17 19:30	1
Chloroethane	1.0	U	10	0.38	ug/L			10/25/17 19:30	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/25/17 19:30	1
Chloromethane	2.0	U	10	0.55	ug/L			10/25/17 19:30	1
cis-1,2-Dichloroethene	**2.3**	**J** J A06	5.0	0.16	ug/L			10/25/17 19:30	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/25/17 19:30	1

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

Client Sample ID: 6MW2606 **Lab Sample ID: 280-102516-7**
Date Collected: 10/17/17 14:25 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U		5.0	0.33	ug/L			10/25/17 19:30	1
Dibromomethane	2.0	U		5.0	0.41	ug/L			10/25/17 19:30	1
Dichlorodifluoromethane	2.0	U		10	0.45	ug/L			10/25/17 19:30	1
Ethylbenzene	1.0	U		5.0	0.30	ug/L			10/25/17 19:30	1
Isopropylbenzene	2.0	U		5.0	0.26	ug/L			10/25/17 19:30	1
m,p-Xylenes	1.0	U		5.0	0.57	ug/L			10/25/17 19:30	1
Methyl tert-butyl ether	2.0	U		5.0	0.40	ug/L			10/25/17 19:30	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			10/25/17 19:30	1
Naphthalene	2.0	U		5.0	0.85	ug/L			10/25/17 19:30	1
n-Butylbenzene	2.0	U		5.0	0.23	ug/L			10/25/17 19:30	1
N-Propylbenzene	2.0	U		5.0	0.30	ug/L			10/25/17 19:30	1
o-Xylene	1.0	U		5.0	0.32	ug/L			10/25/17 19:30	1
p-Isopropyltoluene	2.0	U		5.0	0.32	ug/L			10/25/17 19:30	1
sec-Butylbenzene	2.0	U		5.0	0.31	ug/L			10/25/17 19:30	1
Styrene	1.0	U		5.0	0.35	ug/L			10/25/17 19:30	1
tert-Butylbenzene	2.0	U		5.0	0.31	ug/L			10/25/17 19:30	1
Tetrachloroethene	1.0	U	UJ A06	5.0	0.28	ug/L			10/25/17 19:30	1
Toluene	1.0	U		5.0	1.0	ug/L			10/25/17 19:30	1
trans-1,2-Dichloroethene	1.0	U		5.0	0.18	ug/L			10/25/17 19:30	1
trans-1,3-Dichloropropene	1.0	U		5.0	0.35	ug/L			10/25/17 19:30	1
Trichloroethene	1.0	U	UJ A06	5.0	0.29	ug/L			10/25/17 19:30	1
Trichlorofluoromethane	2.0	U		5.0	0.22	ug/L			10/25/17 19:30	1
Vinyl chloride	**2.6**	**J**	J A06	5.0	0.43	ug/L			10/25/17 19:30	1
Xylenes (total)	5.0	U		10	0.85	ug/L			10/25/17 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*81 - 118*		*10/25/17 19:30*	*1*
4-Bromofluorobenzene (Surr)	*90*		*85 - 114*		*10/25/17 19:30*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 119*		*10/25/17 19:30*	*1*
Toluene-d8 (Surr)	*101*		*89 - 112*		*10/25/17 19:30*	*1*

Client Sample ID: TB07 **Lab Sample ID: 280-102516-8**
Date Collected: 10/17/17 14:45 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/24/17 22:06	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/24/17 22:06	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/24/17 22:06	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/24/17 22:06	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/24/17 22:06	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/24/17 22:06	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/24/17 22:06	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/24/17 22:06	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/24/17 22:06	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/24/17 22:06	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/24/17 22:06	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/24/17 22:06	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/24/17 22:06	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/24/17 22:06	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/24/17 22:06	1

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

Client Sample ID: TB07 **Lab Sample ID: 280-102516-8**
Date Collected: 10/17/17 14:45 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	1.0	U		5.0	0.24	ug/L			10/24/17 22:06	1
2,2-Dichloropropane	2.0	U		5.0	0.54	ug/L			10/24/17 22:06	1
2-Butanone (MEK)	5.0	U		20	0.39	ug/L			10/24/17 22:06	1
2-Chlorotoluene	2.0	U		5.0	0.34	ug/L			10/24/17 22:06	1
2-Hexanone	2.0	U		20	0.59	ug/L			10/24/17 22:06	1
4-Chlorotoluene	2.0	U		5.0	0.31	ug/L			10/24/17 22:06	1
4-Methyl-2-pentanone (MIBK)	2.0	U		20	0.33	ug/L			10/24/17 22:06	1
Acetone	10	U		20	6.7	ug/L			10/24/17 22:06	1
Benzene	1.0	U		5.0	0.25	ug/L			10/24/17 22:06	1
Bromobenzene	2.0	U		5.0	0.33	ug/L			10/24/17 22:06	1
Bromochloromethane	2.0	U		5.0	0.55	ug/L			10/24/17 22:06	1
Bromodichloromethane	2.0	U		5.0	0.25	ug/L			10/24/17 22:06	1
Bromoform	1.0	U		5.0	0.37	ug/L			10/24/17 22:06	1
Bromomethane	2.0	U		10	0.40	ug/L			10/24/17 22:06	1
Carbon disulfide	1.0	U		5.0	0.37	ug/L			10/24/17 22:06	1
Carbon tetrachloride	1.0	U		5.0	0.36	ug/L			10/24/17 22:06	1
Chlorobenzene	1.0	U		5.0	0.38	ug/L			10/24/17 22:06	1
Chloroethane	1.0	U		10	0.38	ug/L			10/24/17 22:06	1
Chloroform	1.0	U		5.0	0.15	ug/L			10/24/17 22:06	1
Chloromethane	2.0	U		10	0.55	ug/L			10/24/17 22:06	1
cis-1,2-Dichloroethene	1.0	U	U	5.0	0.16	ug/L			10/24/17 22:06	1
cis-1,3-Dichloropropene	1.0	U		5.0	0.34	ug/L			10/24/17 22:06	1
Dibromochloromethane	1.0	U		5.0	0.33	ug/L			10/24/17 22:06	1
Dibromomethane	2.0	U		5.0	0.41	ug/L			10/24/17 22:06	1
Dichlorodifluoromethane	2.0	U		10	0.45	ug/L			10/24/17 22:06	1
Ethylbenzene	1.0	U		5.0	0.30	ug/L			10/24/17 22:06	1
Isopropylbenzene	2.0	U		5.0	0.26	ug/L			10/24/17 22:06	1
m,p-Xylenes	1.0	U		5.0	0.57	ug/L			10/24/17 22:06	1
Methyl tert-butyl ether	2.0	U		5.0	0.40	ug/L			10/24/17 22:06	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			10/24/17 22:06	1
Naphthalene	2.0	U		5.0	0.85	ug/L			10/24/17 22:06	1
n-Butylbenzene	2.0	U		5.0	0.23	ug/L			10/24/17 22:06	1
N-Propylbenzene	2.0	U		5.0	0.30	ug/L			10/24/17 22:06	1
o-Xylene	1.0	U		5.0	0.32	ug/L			10/24/17 22:06	1
p-Isopropyltoluene	2.0	U		5.0	0.32	ug/L			10/24/17 22:06	1
sec-Butylbenzene	2.0	U		5.0	0.31	ug/L			10/24/17 22:06	1
Styrene	1.0	U		5.0	0.35	ug/L			10/24/17 22:06	1
tert-Butylbenzene	2.0	U		5.0	0.31	ug/L			10/24/17 22:06	1
Tetrachloroethene	1.0	U	U	5.0	0.28	ug/L			10/24/17 22:06	1
Toluene	**1.1**	**J**		5.0	1.0	ug/L			10/24/17 22:06	1
trans-1,2-Dichloroethene	1.0	U		5.0	0.18	ug/L			10/24/17 22:06	1
trans-1,3-Dichloropropene	1.0	U		5.0	0.35	ug/L			10/24/17 22:06	1
Trichloroethene	1.0	U	U	5.0	0.29	ug/L			10/24/17 22:06	1
Trichlorofluoromethane	2.0	U		5.0	0.22	ug/L			10/24/17 22:06	1
Vinyl chloride	1.0	U	U	5.0	0.43	ug/L			10/24/17 22:06	1
Xylenes (total)	5.0	U		10	0.85	ug/L			10/24/17 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*81 - 118*		*10/24/17 22:06*	*1*
4-Bromofluorobenzene (Surr)	*93*		*85 - 114*		*10/24/17 22:06*	*1*

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

Client Sample ID: TB07 **Lab Sample ID: 280-102516-8**
Date Collected: 10/17/17 14:45 **Matrix: Water**
Date Received: 10/18/17 08:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*10/24/17 22:06*	*1*
Toluene-d8 (Surr)	*97*		*89 - 112*		*10/24/17 22:06*	*1*

Client Sample ID: FB03 **Lab Sample ID: 280-102516-9**
Date Collected: 10/17/17 14:50 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/24/17 22:30	1
1,1,1-Trichloroethane	1.0	U		5.0	0.29	ug/L			10/24/17 22:30	1
1,1,2,2-Tetrachloroethane	2.0	U		5.0	0.43	ug/L			10/24/17 22:30	1
1,1,2-Trichloroethane	1.0	U		5.0	0.57	ug/L			10/24/17 22:30	1
1,1-Dichloroethane	1.0	U		5.0	0.39	ug/L			10/24/17 22:30	1
1,1-Dichloroethene	1.0	U		5.0	0.37	ug/L			10/24/17 22:30	1
1,1-Dichloropropene	1.0	U		5.0	0.30	ug/L			10/24/17 22:30	1
1,2,3-Trichlorobenzene	2.0	U		5.0	0.65	ug/L			10/24/17 22:30	1
1,2,3-Trichloropropane	1.0	U		5.0	0.56	ug/L			10/24/17 22:30	1
1,2,4-Trimethylbenzene	2.0	U		5.0	0.40	ug/L			10/24/17 22:30	1
1,2-Dibromo-3-Chloropropane	2.0	U		10	1.2	ug/L			10/24/17 22:30	1
1,2-Dibromoethane	2.0	U		5.0	0.44	ug/L			10/24/17 22:30	1
1,2-Dichloroethane	1.0	U		5.0	0.37	ug/L			10/24/17 22:30	1
1,2-Dichloropropane	1.0	U		5.0	0.32	ug/L			10/24/17 22:30	1
1,3,5-Trimethylbenzene	2.0	U		5.0	0.28	ug/L			10/24/17 22:30	1
1,3-Dichloropropane	1.0	U		5.0	0.24	ug/L			10/24/17 22:30	1
2,2-Dichloropropane	2.0	U		5.0	0.54	ug/L			10/24/17 22:30	1
2-Butanone (MEK)	5.0	U		20	0.39	ug/L			10/24/17 22:30	1
2-Chlorotoluene	2.0	U		5.0	0.34	ug/L			10/24/17 22:30	1
2-Hexanone	2.0	U		20	0.59	ug/L			10/24/17 22:30	1
4-Chlorotoluene	2.0	U		5.0	0.31	ug/L			10/24/17 22:30	1
4-Methyl-2-pentanone (MIBK)	2.0	U		20	0.33	ug/L			10/24/17 22:30	1
Acetone	10	U		20	6.7	ug/L			10/24/17 22:30	1
Benzene	1.0	U		5.0	0.25	ug/L			10/24/17 22:30	1
Bromobenzene	2.0	U		5.0	0.33	ug/L			10/24/17 22:30	1
Bromochloromethane	2.0	U		5.0	0.55	ug/L			10/24/17 22:30	1
Bromodichloromethane	2.0	U		5.0	0.25	ug/L			10/24/17 22:30	1
Bromoform	1.0	U		5.0	0.37	ug/L			10/24/17 22:30	1
Bromomethane	2.0	U		10	0.40	ug/L			10/24/17 22:30	1
Carbon disulfide	1.0	U		5.0	0.37	ug/L			10/24/17 22:30	1
Carbon tetrachloride	1.0	U		5.0	0.36	ug/L			10/24/17 22:30	1
Chlorobenzene	1.0	U		5.0	0.38	ug/L			10/24/17 22:30	1
Chloroethane	1.0	U		10	0.38	ug/L			10/24/17 22:30	1
Chloroform	1.0	U		5.0	0.15	ug/L			10/24/17 22:30	1
Chloromethane	2.0	U		10	0.55	ug/L			10/24/17 22:30	1
cis-1,2-Dichloroethene	1.0	U	U	5.0	0.16	ug/L			10/24/17 22:30	1
cis-1,3-Dichloropropene	1.0	U		5.0	0.34	ug/L			10/24/17 22:30	1
Dibromochloromethane	1.0	U		5.0	0.33	ug/L			10/24/17 22:30	1
Dibromomethane	2.0	U		5.0	0.41	ug/L			10/24/17 22:30	1
Dichlorodifluoromethane	2.0	U		10	0.45	ug/L			10/24/17 22:30	1
Ethylbenzene	1.0	U		5.0	0.30	ug/L			10/24/17 22:30	1
Isopropylbenzene	2.0	U		5.0	0.26	ug/L			10/24/17 22:30	1

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

Client Sample ID: FB03 **Lab Sample ID: 280-102516-9**
Date Collected: 10/17/17 14:50 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier		LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	1.0	U		5.0	0.57	ug/L			10/24/17 22:30	1
Methyl tert-butyl ether	2.0	U		5.0	0.40	ug/L			10/24/17 22:30	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			10/24/17 22:30	1
Naphthalene	2.0	U		5.0	0.85	ug/L			10/24/17 22:30	1
n-Butylbenzene	2.0	U		5.0	0.23	ug/L			10/24/17 22:30	1
N-Propylbenzene	2.0	U		5.0	0.30	ug/L			10/24/17 22:30	1
o-Xylene	1.0	U		5.0	0.32	ug/L			10/24/17 22:30	1
p-Isopropyltoluene	2.0	U		5.0	0.32	ug/L			10/24/17 22:30	1
sec-Butylbenzene	2.0	U		5.0	0.31	ug/L			10/24/17 22:30	1
Styrene	1.0	U		5.0	0.35	ug/L			10/24/17 22:30	1
tert-Butylbenzene	2.0	U		5.0	0.31	ug/L			10/24/17 22:30	1
Tetrachloroethene	1.0	U	U	5.0	0.28	ug/L			10/24/17 22:30	1
Toluene	**1.1**	**J**		5.0	1.0	ug/L			10/24/17 22:30	1
trans-1,2-Dichloroethene	1.0	U		5.0	0.18	ug/L			10/24/17 22:30	1
trans-1,3-Dichloropropene	1.0	U		5.0	0.35	ug/L			10/24/17 22:30	1
Trichloroethene	1.0	U	U	5.0	0.29	ug/L			10/24/17 22:30	1
Trichlorofluoromethane	2.0	U		5.0	0.22	ug/L			10/24/17 22:30	1
Vinyl chloride	1.0	U	U	5.0	0.43	ug/L			10/24/17 22:30	1
Xylenes (total)	5.0	U		10	0.85	ug/L			10/24/17 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*81 - 118*		*10/24/17 22:30*	*1*
4-Bromofluorobenzene (Surr)	*97*		*85 - 114*		*10/24/17 22:30*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 119*		*10/24/17 22:30*	*1*
Toluene-d8 (Surr)	*101*		*89 - 112*		*10/24/17 22:30*	*1*

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

Client Sample ID: 6MW2506 **Lab Sample ID: 280-102516-6**
Date Collected: 10/17/17 13:40 **Matrix: Water**
Date Received: 10/18/17 08:30

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			10/25/17 20:22	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			10/25/17 20:22	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			10/25/17 20:22	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			10/25/17 20:22	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			10/25/17 20:22	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			10/25/17 20:22	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			10/25/17 20:22	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			10/25/17 20:22	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			10/25/17 20:22	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			10/25/17 20:22	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			10/25/17 20:22	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			10/25/17 20:22	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			10/25/17 20:22	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			10/25/17 20:22	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			10/25/17 20:22	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			10/25/17 20:22	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			10/25/17 20:22	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			10/25/17 20:22	1

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

Client Sample ID: 6MW2506 **Lab Sample ID: 280-102516-6**
Date Collected: 10/17/17 13:40 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			10/25/17 20:22	1
2-Hexanone	2.0	U	20	0.59	ug/L			10/25/17 20:22	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			10/25/17 20:22	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			10/25/17 20:22	1
Acetone	10	U	20	6.7	ug/L			10/25/17 20:22	1
Benzene	1.0	U	5.0	0.25	ug/L			10/25/17 20:22	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			10/25/17 20:22	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			10/25/17 20:22	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			10/25/17 20:22	1
Bromoform	1.0	U	5.0	0.37	ug/L			10/25/17 20:22	1
Bromomethane	2.0	U	10	0.40	ug/L			10/25/17 20:22	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			10/25/17 20:22	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			10/25/17 20:22	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			10/25/17 20:22	1
Chloroethane	1.0	U	10	0.38	ug/L			10/25/17 20:22	1
Chloroform	1.0	U	5.0	0.15	ug/L			10/25/17 20:22	1
Chloromethane	2.0	U	10	0.55	ug/L			10/25/17 20:22	1
cis-1,2-Dichloroethene	**2.6**	**J** J A06	5.0	0.16	ug/L			10/25/17 20:22	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			10/25/17 20:22	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			10/25/17 20:22	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			10/25/17 20:22	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			10/25/17 20:22	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			10/25/17 20:22	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			10/25/17 20:22	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			10/25/17 20:22	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			10/25/17 20:22	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			10/25/17 20:22	1
Naphthalene	2.0	U	5.0	0.85	ug/L			10/25/17 20:22	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			10/25/17 20:22	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			10/25/17 20:22	1
o-Xylene	1.0	U	5.0	0.32	ug/L			10/25/17 20:22	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			10/25/17 20:22	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 20:22	1
Styrene	1.0	U	5.0	0.35	ug/L			10/25/17 20:22	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			10/25/17 20:22	1
Tetrachloroethene	1.0	U UJ A06	5.0	0.28	ug/L			10/25/17 20:22	1
Toluene	1.0	U	5.0	1.0	ug/L			10/25/17 20:22	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			10/25/17 20:22	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			10/25/17 20:22	1
Trichloroethene	1.0	U UJ A06	5.0	0.29	ug/L			10/25/17 20:22	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			10/25/17 20:22	1
Vinyl chloride	**14**	J A06	5.0	0.43	ug/L			10/25/17 20:22	1
Xylenes (total)	5.0	U	10	0.85	ug/L			10/25/17 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*81 - 118*		*10/25/17 20:22*	*1*
4-Bromofluorobenzene (Surr)	*92*		*85 - 114*		*10/25/17 20:22*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 119*		*10/25/17 20:22*	*1*
Toluene-d8 (Surr)	*103*		*89 - 112*		*10/25/17 20:22*	*1*

General Chemistry

Client Sample ID: 6MW2006 **Lab Sample ID: 280-102516-1**
Date Collected: 10/17/17 10:00 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	3.5		1.0	0.16	mg/L			10/25/17 16:52	1

Client Sample ID: 6MW2206 **Lab Sample ID: 280-102516-3**
Date Collected: 10/17/17 11:10 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	50		2.0	0.31	mg/L			10/26/17 23:23	2

Client Sample ID: 6MW2306 **Lab Sample ID: 280-102516-4**
Date Collected: 10/17/17 11:55 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	5.1		1.0	0.16	mg/L			10/25/17 17:55	1

Client Sample ID: 6MW2406 **Lab Sample ID: 280-102516-5**
Date Collected: 10/17/17 12:40 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	6.9		1.0	0.16	mg/L			10/25/17 18:13	1

Client Sample ID: 6MW2506 **Lab Sample ID: 280-102516-6**
Date Collected: 10/17/17 13:40 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	4.1		1.0	0.16	mg/L			10/25/17 18:28	1

Client Sample ID: 6MW2606 **Lab Sample ID: 280-102516-7**
Date Collected: 10/17/17 14:25 **Matrix: Water**
Date Received: 10/18/17 08:30

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	4.1		1.0	0.16	mg/L			10/25/17 18:43	1

MARCH 2018

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ANALYTICAL REPORT

Job Number: 280-107941-1

Job Description: Stratton ANGB, NY - Site 6

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.
Donna R Rydberg
Senior Project Manager
4/20/2018 4:07 AM

Donna R Rydberg, Senior Project Manager
4955 Yarrow Street, Arvada, CO, 80002
(303)736-0192
donna.rydberg@testamericainc.com
04/20/2018

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.

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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
M	Manual integrated compound.

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

CASE NARRATIVE

Client: Leidos, Inc.

Project: Stratton ANGB, NY - Site 6

Report Number: 280-107941-1

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 3/30/2018 at 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.1º C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples 6MW2007 (280-107941-1), 6MW2007D (280-107941-2), 6MW2207 (280-107941-3), 6MW2307 (280-107941-4), 6MW2407 (280-107941-5), 6MW2507 (280-107941-6), 6MW2607 (280-107941-7), TB08 (280-107941-8) and FB04 (280-107941-9) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with 8260C_DOD5. The samples were analyzed on 04/04/2018.

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-358977: 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 160-358977/3) and (CCVC 160-358977/20).

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

TOTAL ORGANIC CARBON

Samples 6MW2007 (280-107941-1), 6MW2007D (280-107941-2), 6MW2207 (280-107941-3), 6MW2307 (280-107941-4), 6MW2407 (280-107941-5), 6MW2507 (280-107941-6), 6MW2607 (280-107941-7) and FB04 (280-107941-9) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 04/13/2018.

Total Organic Carbon - Quad was detected in method blank MB 280-411274/35 at a level that was less than one half the LOQ; therefore, corrective action was deemed unnecessary. The value should be considered an estimate, and has been flagged “J” in accordance with the DoD QSM.

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: Stratton ANGB, NY - Site 6

TestAmerica Job ID: 280-107941-1

Client Sample ID: 6MW2007 — Lab Sample ID: 280-107941-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.80	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	3.5		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2007D — Lab Sample ID: 280-107941-2

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.70	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	3.5		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2207 — Lab Sample ID: 280-107941-3

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.8	J	20	6.7	ug/L	1		8260C DOD	Total/NA
cis-1,2-Dichloroethene	0.81	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Tetrachloroethene	1.5	J	5.0	0.28	ug/L	1		8260C DOD	Total/NA
Trichloroethene	0.41	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	31		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2307 — Lab Sample ID: 280-107941-4

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Tetrachloroethene	0.80	J	5.0	0.28	ug/L	1		8260C DOD	Total/NA
Trichloroethene	0.78	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	0.54	J	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	3.1		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2407 — Lab Sample ID: 280-107941-5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.2	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Trichloroethene	6.3		5.0	0.29	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	4.1		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2507 — Lab Sample ID: 280-107941-6

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.8	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Trichloroethene	1.2	J	5.0	0.29	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	15		5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	6.5		1.0	0.16	mg/L	1		9060A	Total/NA

Client Sample ID: 6MW2607 — Lab Sample ID: 280-107941-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.0	J	5.0	0.16	ug/L	1		8260C DOD	Total/NA
Vinyl chloride	0.43	J M	5.0	0.43	ug/L	1		8260C DOD	Total/NA
Total Organic Carbon - Quad	3.4		1.0	0.16	mg/L	1		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY - Site 6

TestAmerica Job ID: 280-107941-1

Client Sample ID: TB08 — Lab Sample ID: 280-107941-8

No Detections.

Client Sample ID: FB04 — Lab Sample ID: 280-107941-9

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Quad	0.36	J	1.0	0.16	mg/L	1		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 6MW2007

Date Collected: 03/28/18 09:00
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-1

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			04/04/18 18:06	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 18:06	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 18:06	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 18:06	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 18:06	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 18:06	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 18:06	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 18:06	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 18:06	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 18:06	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 18:06	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 18:06	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 18:06	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 18:06	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 18:06	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 18:06	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 18:06	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 18:06	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 18:06	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 18:06	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 18:06	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			04/04/18 18:06	1
Acetone	10	U	20	6.7	ug/L			04/04/18 18:06	1
Benzene	1.0	U	5.0	0.25	ug/L			04/04/18 18:06	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/04/18 18:06	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/04/18 18:06	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/04/18 18:06	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/04/18 18:06	1
Bromomethane	2.0	U	10	0.40	ug/L			04/04/18 18:06	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/04/18 18:06	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/04/18 18:06	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/04/18 18:06	1
Chloroethane	1.0	U	10	0.38	ug/L			04/04/18 18:06	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/04/18 18:06	1
Chloromethane	2.0	U	10	0.55	ug/L			04/04/18 18:06	1
cis-1,2-Dichloroethene	**0.80**	**J**	5.0	0.16	ug/L			04/04/18 18:06	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/04/18 18:06	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/04/18 18:06	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/04/18 18:06	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			04/04/18 18:06	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/04/18 18:06	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/04/18 18:06	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/04/18 18:06	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/04/18 18:06	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/04/18 18:06	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/04/18 18:06	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/04/18 18:06	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/04/18 18:06	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/04/18 18:06	1

Client Sample ID: 6MW2007 — Lab Sample ID: 280-107941-1

Date Collected: 03/28/18 09:00 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 18:06	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 18:06	1
Styrene	1.0	U	5.0	0.35	ug/L			04/04/18 18:06	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 18:06	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/04/18 18:06	1
Toluene	1.0	U	5.0	1.0	ug/L			04/04/18 18:06	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/04/18 18:06	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/04/18 18:06	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			04/04/18 18:06	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/04/18 18:06	1
Vinyl chloride	1.0	U M	5.0	0.43	ug/L			04/04/18 18:06	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/04/18 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*81 - 118*		*04/04/18 18:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*		*04/04/18 18:06*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 119*		*04/04/18 18:06*	*1*
Toluene-d8 (Surr)	*101*		*89 - 112*		*04/04/18 18:06*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.5**		1.0	0.16	mg/L			04/13/18 04:36	1

Client Sample ID: 6MW2007D — Lab Sample ID: 280-107941-2

Date Collected: 03/28/18 09:05 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 19:46	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 19:46	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 19:46	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 19:46	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 19:46	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 19:46	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 19:46	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 19:46	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 19:46	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 19:46	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 19:46	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 19:46	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 19:46	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 19:46	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 19:46	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 19:46	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 19:46	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 19:46	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 19:46	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 19:46	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 19:46	1

Client Sample ID: 6MW2007D

Date Collected: 03/28/18 09:05
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-2

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			04/04/18 19:46	1
Acetone	10	U	20	6.7	ug/L			04/04/18 19:46	1
Benzene	1.0	U	5.0	0.25	ug/L			04/04/18 19:46	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/04/18 19:46	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/04/18 19:46	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/04/18 19:46	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/04/18 19:46	1
Bromomethane	2.0	U	10	0.40	ug/L			04/04/18 19:46	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/04/18 19:46	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/04/18 19:46	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/04/18 19:46	1
Chloroethane	1.0	U	10	0.38	ug/L			04/04/18 19:46	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/04/18 19:46	1
Chloromethane	2.0	U	10	0.55	ug/L			04/04/18 19:46	1
cis-1,2-Dichloroethene	**0.70**	**J**	5.0	0.16	ug/L			04/04/18 19:46	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/04/18 19:46	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/04/18 19:46	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/04/18 19:46	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			04/04/18 19:46	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/04/18 19:46	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/04/18 19:46	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/04/18 19:46	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/04/18 19:46	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/04/18 19:46	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/04/18 19:46	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/04/18 19:46	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/04/18 19:46	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/04/18 19:46	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			04/04/18 19:46	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 19:46	1
Styrene	1.0	U	5.0	0.35	ug/L			04/04/18 19:46	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 19:46	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/04/18 19:46	1
Toluene	1.0	U	5.0	1.0	ug/L			04/04/18 19:46	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/04/18 19:46	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/04/18 19:46	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			04/04/18 19:46	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/04/18 19:46	1
Vinyl chloride	1.0	U M	5.0	0.43	ug/L			04/04/18 19:46	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/04/18 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*81 - 118*		*04/04/18 19:46*	*1*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*		*04/04/18 19:46*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*04/04/18 19:46*	*1*
Toluene-d8 (Surr)	*99*		*89 - 112*		*04/04/18 19:46*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.5**		1.0	0.16	mg/L			04/13/18 05:34	1

Client Sample ID: 6MW2207

Date Collected: 03/28/18 10:20
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-3

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			04/04/18 20:11	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 20:11	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 20:11	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 20:11	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 20:11	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 20:11	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 20:11	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 20:11	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 20:11	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 20:11	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 20:11	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 20:11	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 20:11	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 20:11	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 20:11	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 20:11	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 20:11	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 20:11	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 20:11	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 20:11	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 20:11	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			04/04/18 20:11	1
Acetone	**7.8**	**J**	20	6.7	ug/L			04/04/18 20:11	1
Benzene	1.0	U	5.0	0.25	ug/L			04/04/18 20:11	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/04/18 20:11	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/04/18 20:11	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/04/18 20:11	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/04/18 20:11	1
Bromomethane	2.0	U	10	0.40	ug/L			04/04/18 20:11	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/04/18 20:11	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/04/18 20:11	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/04/18 20:11	1
Chloroethane	1.0	U	10	0.38	ug/L			04/04/18 20:11	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/04/18 20:11	1
Chloromethane	2.0	U	10	0.55	ug/L			04/04/18 20:11	1
cis-1,2-Dichloroethene	**0.81**	**J**	5.0	0.16	ug/L			04/04/18 20:11	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/04/18 20:11	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/04/18 20:11	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/04/18 20:11	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			04/04/18 20:11	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/04/18 20:11	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/04/18 20:11	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/04/18 20:11	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/04/18 20:11	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/04/18 20:11	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/04/18 20:11	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/04/18 20:11	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/04/18 20:11	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/04/18 20:11	1

Client Sample ID: 6MW2207 — Lab Sample ID: 280-107941-3

Date Collected: 03/28/18 10:20 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 20:11	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 20:11	1
Styrene	1.0	U	5.0	0.35	ug/L			04/04/18 20:11	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 20:11	1
Tetrachloroethene	**1.5**	**J**	5.0	0.28	ug/L			04/04/18 20:11	1
Toluene	1.0	U	5.0	1.0	ug/L			04/04/18 20:11	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/04/18 20:11	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/04/18 20:11	1
Trichloroethene	**0.41**	**J**	5.0	0.29	ug/L			04/04/18 20:11	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/04/18 20:11	1
Vinyl chloride	1.0	U M	5.0	0.43	ug/L			04/04/18 20:11	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/04/18 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*		*04/04/18 20:11*	*1*
4-Bromofluorobenzene (Surr)	*95*		*85 - 114*		*04/04/18 20:11*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*04/04/18 20:11*	*1*
Toluene-d8 (Surr)	*95*		*89 - 112*		*04/04/18 20:11*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**31**		1.0	0.16	mg/L			04/13/18 06:31	1

Client Sample ID: 6MW2307 — Lab Sample ID: 280-107941-4

Date Collected: 03/28/18 11:05 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 20:36	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 20:36	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 20:36	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 20:36	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 20:36	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 20:36	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 20:36	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 20:36	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 20:36	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 20:36	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 20:36	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 20:36	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 20:36	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 20:36	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 20:36	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 20:36	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 20:36	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 20:36	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 20:36	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 20:36	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 20:36	1

Client Sample ID: 6MW2307

Date Collected: 03/28/18 11:05
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-4

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			04/04/18 20:36	1
Acetone	10	U	20	6.7	ug/L			04/04/18 20:36	1
Benzene	1.0	U	5.0	0.25	ug/L			04/04/18 20:36	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/04/18 20:36	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/04/18 20:36	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/04/18 20:36	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/04/18 20:36	1
Bromomethane	2.0	U	10	0.40	ug/L			04/04/18 20:36	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/04/18 20:36	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/04/18 20:36	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/04/18 20:36	1
Chloroethane	1.0	U	10	0.38	ug/L			04/04/18 20:36	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/04/18 20:36	1
Chloromethane	2.0	U	10	0.55	ug/L			04/04/18 20:36	1
cis-1,2-Dichloroethene	**1.3**	**J**	5.0	0.16	ug/L			04/04/18 20:36	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/04/18 20:36	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/04/18 20:36	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/04/18 20:36	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			04/04/18 20:36	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/04/18 20:36	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/04/18 20:36	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/04/18 20:36	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/04/18 20:36	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/04/18 20:36	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/04/18 20:36	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/04/18 20:36	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/04/18 20:36	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/04/18 20:36	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			04/04/18 20:36	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 20:36	1
Styrene	1.0	U	5.0	0.35	ug/L			04/04/18 20:36	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 20:36	1
Tetrachloroethene	**0.80**	**J**	5.0	0.28	ug/L			04/04/18 20:36	1
Toluene	1.0	U	5.0	1.0	ug/L			04/04/18 20:36	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/04/18 20:36	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/04/18 20:36	1
Trichloroethene	**0.78**	**J**	5.0	0.29	ug/L			04/04/18 20:36	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/04/18 20:36	1
Vinyl chloride	**0.54**	**J**	5.0	0.43	ug/L			04/04/18 20:36	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/04/18 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*81 - 118*		*04/04/18 20:36*	*1*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*		*04/04/18 20:36*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 119*		*04/04/18 20:36*	*1*
Toluene-d8 (Surr)	*100*		*89 - 112*		*04/04/18 20:36*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.1**		1.0	0.16	mg/L			04/13/18 06:51	1

Client Sample ID: 6MW2407

Date Collected: 03/28/18 12:00
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-5

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			04/04/18 21:01	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 21:01	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 21:01	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 21:01	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 21:01	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 21:01	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 21:01	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 21:01	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 21:01	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 21:01	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 21:01	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 21:01	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 21:01	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 21:01	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 21:01	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 21:01	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 21:01	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 21:01	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 21:01	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 21:01	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 21:01	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			04/04/18 21:01	1
Acetone	10	U	20	6.7	ug/L			04/04/18 21:01	1
Benzene	1.0	U	5.0	0.25	ug/L			04/04/18 21:01	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/04/18 21:01	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/04/18 21:01	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/04/18 21:01	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/04/18 21:01	1
Bromomethane	2.0	U	10	0.40	ug/L			04/04/18 21:01	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/04/18 21:01	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/04/18 21:01	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/04/18 21:01	1
Chloroethane	1.0	U	10	0.38	ug/L			04/04/18 21:01	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/04/18 21:01	1
Chloromethane	2.0	U	10	0.55	ug/L			04/04/18 21:01	1
cis-1,2-Dichloroethene	**2.2**	**J**	5.0	0.16	ug/L			04/04/18 21:01	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/04/18 21:01	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/04/18 21:01	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/04/18 21:01	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			04/04/18 21:01	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/04/18 21:01	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/04/18 21:01	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/04/18 21:01	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/04/18 21:01	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/04/18 21:01	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/04/18 21:01	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/04/18 21:01	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/04/18 21:01	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/04/18 21:01	1

Client Sample ID: 6MW2407 — Lab Sample ID: 280-107941-5

Date Collected: 03/28/18 12:00 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 21:01	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 21:01	1
Styrene	1.0	U	5.0	0.35	ug/L			04/04/18 21:01	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 21:01	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/04/18 21:01	1
Toluene	1.0	U	5.0	1.0	ug/L			04/04/18 21:01	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/04/18 21:01	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/04/18 21:01	1
Trichloroethene	**6.3**		5.0	0.29	ug/L			04/04/18 21:01	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/04/18 21:01	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			04/04/18 21:01	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/04/18 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*81 - 118*		*04/04/18 21:01*	*1*
4-Bromofluorobenzene (Surr)	*102*		*85 - 114*		*04/04/18 21:01*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 119*		*04/04/18 21:01*	*1*
Toluene-d8 (Surr)	*102*		*89 - 112*		*04/04/18 21:01*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**4.1**		1.0	0.16	mg/L			04/13/18 07:09	1

Client Sample ID: 6MW2507 — Lab Sample ID: 280-107941-6

Date Collected: 03/28/18 13:15 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 21:26	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 21:26	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 21:26	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 21:26	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 21:26	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 21:26	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 21:26	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 21:26	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 21:26	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 21:26	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 21:26	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 21:26	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 21:26	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 21:26	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 21:26	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 21:26	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 21:26	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 21:26	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 21:26	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 21:26	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 21:26	1

Client Sample ID: 6MW2507

Date Collected: 03/28/18 13:15
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-6

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			04/04/18 21:26	1
Acetone	10	U	20	6.7	ug/L			04/04/18 21:26	1
Benzene	1.0	U	5.0	0.25	ug/L			04/04/18 21:26	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/04/18 21:26	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/04/18 21:26	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/04/18 21:26	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/04/18 21:26	1
Bromomethane	2.0	U	10	0.40	ug/L			04/04/18 21:26	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/04/18 21:26	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/04/18 21:26	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/04/18 21:26	1
Chloroethane	1.0	U	10	0.38	ug/L			04/04/18 21:26	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/04/18 21:26	1
Chloromethane	2.0	U	10	0.55	ug/L			04/04/18 21:26	1
cis-1,2-Dichloroethene	**3.8**	**J**	5.0	0.16	ug/L			04/04/18 21:26	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/04/18 21:26	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/04/18 21:26	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/04/18 21:26	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			04/04/18 21:26	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/04/18 21:26	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/04/18 21:26	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/04/18 21:26	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/04/18 21:26	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/04/18 21:26	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/04/18 21:26	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/04/18 21:26	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/04/18 21:26	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/04/18 21:26	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			04/04/18 21:26	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 21:26	1
Styrene	1.0	U	5.0	0.35	ug/L			04/04/18 21:26	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 21:26	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/04/18 21:26	1
Toluene	1.0	U	5.0	1.0	ug/L			04/04/18 21:26	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/04/18 21:26	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/04/18 21:26	1
Trichloroethene	**1.2**	**J**	5.0	0.29	ug/L			04/04/18 21:26	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/04/18 21:26	1
Vinyl chloride	**15**		5.0	0.43	ug/L			04/04/18 21:26	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/04/18 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*81 - 118*		*04/04/18 21:26*	*1*
4-Bromofluorobenzene (Surr)	*96*		*85 - 114*		*04/04/18 21:26*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*04/04/18 21:26*	*1*
Toluene-d8 (Surr)	*99*		*89 - 112*		*04/04/18 21:26*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**6.5**		1.0	0.16	mg/L			04/13/18 07:28	1

Client Sample ID: 6MW2607

Date Collected: 03/28/18 13:55
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-7

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			04/04/18 21:51	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 21:51	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 21:51	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 21:51	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 21:51	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 21:51	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 21:51	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 21:51	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 21:51	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 21:51	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 21:51	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 21:51	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 21:51	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 21:51	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 21:51	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 21:51	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 21:51	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 21:51	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 21:51	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 21:51	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 21:51	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			04/04/18 21:51	1
Acetone	10	U	20	6.7	ug/L			04/04/18 21:51	1
Benzene	1.0	U	5.0	0.25	ug/L			04/04/18 21:51	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/04/18 21:51	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/04/18 21:51	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/04/18 21:51	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/04/18 21:51	1
Bromomethane	2.0	U	10	0.40	ug/L			04/04/18 21:51	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/04/18 21:51	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/04/18 21:51	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/04/18 21:51	1
Chloroethane	1.0	U	10	0.38	ug/L			04/04/18 21:51	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/04/18 21:51	1
Chloromethane	2.0	U	10	0.55	ug/L			04/04/18 21:51	1
cis-1,2-Dichloroethene	**1.0**	**J**	5.0	0.16	ug/L			04/04/18 21:51	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/04/18 21:51	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/04/18 21:51	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/04/18 21:51	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			04/04/18 21:51	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/04/18 21:51	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/04/18 21:51	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/04/18 21:51	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/04/18 21:51	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/04/18 21:51	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/04/18 21:51	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/04/18 21:51	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/04/18 21:51	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/04/18 21:51	1

Client Sample ID: 6MW2607 — Lab Sample ID: 280-107941-7

Date Collected: 03/28/18 13:55 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 21:51	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 21:51	1
Styrene	1.0	U	5.0	0.35	ug/L			04/04/18 21:51	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 21:51	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/04/18 21:51	1
Toluene	1.0	U	5.0	1.0	ug/L			04/04/18 21:51	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/04/18 21:51	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/04/18 21:51	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			04/04/18 21:51	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/04/18 21:51	1
Vinyl chloride	**0.43**	**J M**	5.0	0.43	ug/L			04/04/18 21:51	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/04/18 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*81 - 118*		*04/04/18 21:51*	*1*
4-Bromofluorobenzene (Surr)	*98*		*85 - 114*		*04/04/18 21:51*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*04/04/18 21:51*	*1*
Toluene-d8 (Surr)	*96*		*89 - 112*		*04/04/18 21:51*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.4**		1.0	0.16	mg/L			04/13/18 07:47	1

Client Sample ID: TB08 — Lab Sample ID: 280-107941-8

Date Collected: 03/28/18 14:05 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 17:16	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 17:16	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 17:16	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 17:16	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 17:16	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 17:16	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 17:16	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 17:16	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 17:16	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 17:16	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 17:16	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 17:16	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 17:16	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 17:16	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 17:16	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 17:16	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 17:16	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 17:16	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 17:16	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 17:16	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 17:16	1

Client Sample ID: TB08 **Lab Sample ID: 280-107941-8**
Date Collected: 03/28/18 14:05 **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 17:16	1
Acetone	10	U	20	6.7	ug/L			04/04/18 17:16	1
Benzene	1.0	U	5.0	0.25	ug/L			04/04/18 17:16	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/04/18 17:16	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/04/18 17:16	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/04/18 17:16	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/04/18 17:16	1
Bromomethane	2.0	U	10	0.40	ug/L			04/04/18 17:16	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/04/18 17:16	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/04/18 17:16	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/04/18 17:16	1
Chloroethane	1.0	U	10	0.38	ug/L			04/04/18 17:16	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/04/18 17:16	1
Chloromethane	2.0	U	10	0.55	ug/L			04/04/18 17:16	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			04/04/18 17:16	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/04/18 17:16	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/04/18 17:16	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/04/18 17:16	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			04/04/18 17:16	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/04/18 17:16	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/04/18 17:16	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/04/18 17:16	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/04/18 17:16	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/04/18 17:16	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/04/18 17:16	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/04/18 17:16	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/04/18 17:16	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/04/18 17:16	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			04/04/18 17:16	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 17:16	1
Styrene	1.0	U	5.0	0.35	ug/L			04/04/18 17:16	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 17:16	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/04/18 17:16	1
Toluene	1.0	U	5.0	1.0	ug/L			04/04/18 17:16	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/04/18 17:16	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/04/18 17:16	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			04/04/18 17:16	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/04/18 17:16	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			04/04/18 17:16	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/04/18 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*		*04/04/18 17:16*	*1*
4-Bromofluorobenzene (Surr)	*98*		*85 - 114*		*04/04/18 17:16*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*04/04/18 17:16*	*1*
Toluene-d8 (Surr)	*98*		*89 - 112*		*04/04/18 17:16*	*1*

Client Sample ID: FB04
Date Collected: 03/28/18 14:00
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-9
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			04/04/18 17:41	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 17:41	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 17:41	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 17:41	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 17:41	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 17:41	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 17:41	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 17:41	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 17:41	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 17:41	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 17:41	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 17:41	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 17:41	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 17:41	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 17:41	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 17:41	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 17:41	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 17:41	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 17:41	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 17:41	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 17:41	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			04/04/18 17:41	1
Acetone	10	U	20	6.7	ug/L			04/04/18 17:41	1
Benzene	1.0	U	5.0	0.25	ug/L			04/04/18 17:41	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/04/18 17:41	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/04/18 17:41	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/04/18 17:41	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/04/18 17:41	1
Bromomethane	2.0	U	10	0.40	ug/L			04/04/18 17:41	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/04/18 17:41	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/04/18 17:41	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/04/18 17:41	1
Chloroethane	1.0	U	10	0.38	ug/L			04/04/18 17:41	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/04/18 17:41	1
Chloromethane	2.0	U	10	0.55	ug/L			04/04/18 17:41	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			04/04/18 17:41	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/04/18 17:41	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/04/18 17:41	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/04/18 17:41	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			04/04/18 17:41	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/04/18 17:41	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/04/18 17:41	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/04/18 17:41	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/04/18 17:41	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/04/18 17:41	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/04/18 17:41	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/04/18 17:41	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/04/18 17:41	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/04/18 17:41	1

Client Sample ID: FB04 — Lab Sample ID: 280-107941-9

Date Collected: 03/28/18 14:00 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 17:41	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 17:41	1
Styrene	1.0	U	5.0	0.35	ug/L			04/04/18 17:41	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 17:41	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/04/18 17:41	1
Toluene	1.0	U	5.0	1.0	ug/L			04/04/18 17:41	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/04/18 17:41	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/04/18 17:41	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			04/04/18 17:41	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/04/18 17:41	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			04/04/18 17:41	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/04/18 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*04/04/18 17:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*		*04/04/18 17:41*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*04/04/18 17:41*	*1*
Toluene-d8 (Surr)	*100*		*89 - 112*		*04/04/18 17:41*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**0.36**	**J**	1.0	0.16	mg/L			04/13/18 08:06	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.
Project/Site: Stratton ANGB, NY - Site 6

TestAmerica Job ID: 280-107941-1

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: Stratton ANGB, NY - Site 6

TestAmerica Job ID: 280-107941-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(81-118)	(85-114)	(80-119)	(89-112)
280-107941-1	6MW2007	108	104	106	101
280-107941-1 MS	6MW2007MS	102	99	101	95
280-107941-1 MSD	6MW2007MSD	99	99	98	95
280-107941-2	6MW2007D	105	103	102	99
280-107941-3	6MW2207	102	95	99	95
280-107941-4	6MW2307	107	103	105	100
280-107941-5	6MW2407	111	102	107	102
280-107941-6	6MW2507	105	96	102	99
280-107941-7	6MW2607	104	98	99	96
280-107941-8	TB08	98	98	99	98
280-107941-9	FB04	99	100	100	100
LCS 160-358977/4	Lab Control Sample	97	100	101	100
LCSD 160-358977/5	Lab Control Sample Dup	97	104	102	101
MB 160-358977/7	Method Blank	105	100	104	99

Surrogate Legend

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

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

Lab Sample ID: MB 160-358977/7
Matrix: Water
Analysis Batch: 358977

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			04/04/18 16:51	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 16:51	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 16:51	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 16:51	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 16:51	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 16:51	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 16:51	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 16:51	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 16:51	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 16:51	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 16:51	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 16:51	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 16:51	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 16:51	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 16:51	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 16:51	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 16:51	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 16:51	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 16:51	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 16:51	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 16:51	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			04/04/18 16:51	1
Acetone	10	U	20	6.7	ug/L			04/04/18 16:51	1
Benzene	1.0	U	5.0	0.25	ug/L			04/04/18 16:51	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/04/18 16:51	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/04/18 16:51	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/04/18 16:51	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/04/18 16:51	1
Bromomethane	2.0	U	10	0.40	ug/L			04/04/18 16:51	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/04/18 16:51	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/04/18 16:51	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/04/18 16:51	1
Chloroethane	1.0	U	10	0.38	ug/L			04/04/18 16:51	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/04/18 16:51	1
Chloromethane	2.0	U	10	0.55	ug/L			04/04/18 16:51	1
cis-1,2-Dichloroethene	1.0	U	5.0	0.16	ug/L			04/04/18 16:51	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/04/18 16:51	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/04/18 16:51	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/04/18 16:51	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			04/04/18 16:51	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/04/18 16:51	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/04/18 16:51	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/04/18 16:51	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/04/18 16:51	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/04/18 16:51	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/04/18 16:51	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/04/18 16:51	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/04/18 16:51	1

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

Lab Sample ID: MB 160-358977/7
Matrix: Water
Analysis Batch: 358977

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			04/04/18 16:51	1
p-Isopropyltoluene	2.0	U	5.0	0.32	ug/L			04/04/18 16:51	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 16:51	1
Styrene	1.0	U	5.0	0.35	ug/L			04/04/18 16:51	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 16:51	1
Tetrachloroethene	1.0	U	5.0	0.28	ug/L			04/04/18 16:51	1
Toluene	1.0	U	5.0	1.0	ug/L			04/04/18 16:51	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/04/18 16:51	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/04/18 16:51	1
Trichloroethene	1.0	U	5.0	0.29	ug/L			04/04/18 16:51	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/04/18 16:51	1
Vinyl chloride	1.0	U	5.0	0.43	ug/L			04/04/18 16:51	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/04/18 16:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*81 - 118*		*04/04/18 16:51*	*1*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*		*04/04/18 16:51*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 119*		*04/04/18 16:51*	*1*
Toluene-d8 (Surr)	*99*		*89 - 112*		*04/04/18 16:51*	*1*

Lab Sample ID: LCS 160-358977/4
Matrix: Water
Analysis Batch: 358977

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	49.8		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	47.3		ug/L		95	71 - 121
1,1,2-Trichloroethane	50.0	49.7		ug/L		99	80 - 119
1,1-Dichloroethane	50.0	49.0		ug/L		98	77 - 125
1,1-Dichloroethene	50.0	50.8		ug/L		102	71 - 131
1,1-Dichloropropene	50.0	49.9		ug/L		100	79 - 125
1,2,3-Trichlorobenzene	50.0	53.9		ug/L		108	69 - 129
1,2,3-Trichloropropane	50.0	48.0		ug/L		96	73 - 122
1,2,4-Trimethylbenzene	50.0	49.2		ug/L		98	76 - 124
1,2-Dibromo-3-Chloropropane	50.0	50.8		ug/L		102	62 - 128
1,2-Dibromoethane	50.0	50.2		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	47.1		ug/L		94	73 - 128
1,2-Dichloropropane	50.0	50.4		ug/L		101	78 - 122
1,3,5-Trimethylbenzene	50.0	48.9		ug/L		98	75 - 124
1,3-Dichloropropane	50.0	48.9		ug/L		98	80 - 119
2,2-Dichloropropane	50.0	51.0		ug/L		102	60 - 139
2-Butanone (MEK)	50.0	49.1		ug/L		98	56 - 143
2-Chlorotoluene	50.0	49.2		ug/L		98	79 - 122
2-Hexanone	50.0	52.2		ug/L		104	57 - 139
4-Chlorotoluene	50.0	49.5		ug/L		99	78 - 122
4-Methyl-2-pentanone (MIBK)	50.0	51.4		ug/L		103	67 - 130
Acetone	50.0	49.9		ug/L		100	39 - 160

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

Lab Sample ID: LCS 160-358977/4
Matrix: Water
Analysis Batch: 358977

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	47.9		ug/L		96	79 - 120
Bromobenzene	50.0	49.0		ug/L		98	80 - 120
Bromochloromethane	50.0	49.8		ug/L		100	78 - 123
Bromodichloromethane	50.0	50.4		ug/L		101	79 - 125
Bromoform	50.0	50.7		ug/L		101	66 - 130
Bromomethane	50.0	47.4		ug/L		95	53 - 141
Carbon disulfide	50.0	51.3		ug/L		103	64 - 133
Carbon tetrachloride	50.0	50.1		ug/L		100	72 - 136
Chlorobenzene	50.0	49.1		ug/L		98	82 - 118
Chloroethane	50.0	45.0		ug/L		90	60 - 138
Chloroform	50.0	48.5		ug/L		97	79 - 124
Chloromethane	50.0	48.8		ug/L		98	50 - 139
cis-1,2-Dichloroethene	50.0	49.4		ug/L		99	78 - 123
cis-1,3-Dichloropropene	50.0	52.2		ug/L		104	75 - 124
Dibromochloromethane	50.0	51.5		ug/L		103	74 - 126
Dibromomethane	50.0	50.1		ug/L		100	79 - 123
Dichlorodifluoromethane	50.0	52.5		ug/L		105	32 - 152
Ethylbenzene	50.0	46.7		ug/L		93	79 - 121
Isopropylbenzene	50.0	50.5		ug/L		101	72 - 131
m,p-Xylenes	50.0	49.1		ug/L		98	80 - 121
Methyl tert-butyl ether	50.0	51.4		ug/L		103	71 - 124
Methylene Chloride	50.0	50.1		ug/L		100	74 - 124
Naphthalene	50.0	53.5		ug/L		107	61 - 128
n-Butylbenzene	50.0	49.4		ug/L		99	75 - 128
N-Propylbenzene	50.0	49.9		ug/L		100	76 - 126
o-Xylene	50.0	49.3		ug/L		99	78 - 122
p-Isopropyltoluene	50.0	49.8		ug/L		100	77 - 127
sec-Butylbenzene	50.0	48.7		ug/L		97	77 - 126
Styrene	50.0	51.5		ug/L		103	78 - 123
tert-Butylbenzene	50.0	48.8		ug/L		98	78 - 124
Tetrachloroethene	50.0	49.7		ug/L		99	74 - 129
Toluene	50.0	49.3		ug/L		99	80 - 121
trans-1,2-Dichloroethene	50.0	49.3		ug/L		99	75 - 124
trans-1,3-Dichloropropene	50.0	52.8		ug/L		106	73 - 127
Trichloroethene	50.0	48.1		ug/L		96	79 - 123
Trichlorofluoromethane	50.0	47.0		ug/L		94	65 - 141
Vinyl chloride	50.0	45.3		ug/L		91	58 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*81 - 118*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*
Dibromofluoromethane (Surr)	*101*		*80 - 119*
Toluene-d8 (Surr)	*100*		*89 - 112*

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

Lab Sample ID: LCSD 160-358977/5
Matrix: Water
Analysis Batch: 358977

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	48.7		ug/L		97	78 - 124	2	20
1,1,1-Trichloroethane	50.0	49.4		ug/L		99	74 - 131	1	20
1,1,2,2-Tetrachloroethane	50.0	46.7		ug/L		93	71 - 121	1	20
1,1,2-Trichloroethane	50.0	50.0		ug/L		100	80 - 119	0	20
1,1-Dichloroethane	50.0	48.5		ug/L		97	77 - 125	1	20
1,1-Dichloroethene	50.0	49.9		ug/L		100	71 - 131	2	20
1,1-Dichloropropene	50.0	49.1		ug/L		98	79 - 125	2	20
1,2,3-Trichlorobenzene	50.0	54.6		ug/L		109	69 - 129	1	20
1,2,3-Trichloropropane	50.0	47.8		ug/L		96	73 - 122	0	20
1,2,4-Trimethylbenzene	50.0	49.2		ug/L		98	76 - 124	0	20
1,2-Dibromo-3-Chloropropane	50.0	51.6		ug/L		103	62 - 128	2	20
1,2-Dibromoethane	50.0	50.8		ug/L		102	80 - 120	1	20
1,2-Dichloroethane	50.0	46.8		ug/L		94	73 - 128	1	20
1,2-Dichloropropane	50.0	49.9		ug/L		100	78 - 122	1	20
1,3,5-Trimethylbenzene	50.0	49.5		ug/L		99	75 - 124	1	20
1,3-Dichloropropane	50.0	48.9		ug/L		98	80 - 119	0	20
2,2-Dichloropropane	50.0	50.0		ug/L		100	60 - 139	2	20
2-Butanone (MEK)	50.0	48.9		ug/L		98	56 - 143	0	20
2-Chlorotoluene	50.0	49.8		ug/L		100	79 - 122	1	20
2-Hexanone	50.0	50.1		ug/L		100	57 - 139	4	20
4-Chlorotoluene	50.0	49.9		ug/L		100	78 - 122	1	20
4-Methyl-2-pentanone (MIBK)	50.0	50.2		ug/L		100	67 - 130	2	20
Acetone	50.0	47.9		ug/L		96	39 - 160	4	20
Benzene	50.0	47.5		ug/L		95	79 - 120	1	20
Bromobenzene	50.0	49.5		ug/L		99	80 - 120	1	20
Bromochloromethane	50.0	50.5		ug/L		101	78 - 123	1	20
Bromodichloromethane	50.0	49.8		ug/L		100	79 - 125	1	20
Bromoform	50.0	51.4		ug/L		103	66 - 130	1	20
Bromomethane	50.0	47.8		ug/L		96	53 - 141	1	20
Carbon disulfide	50.0	50.4		ug/L		101	64 - 133	2	20
Carbon tetrachloride	50.0	49.7		ug/L		99	72 - 136	1	20
Chlorobenzene	50.0	48.9		ug/L		98	82 - 118	0	20
Chloroethane	50.0	46.9		ug/L		94	60 - 138	4	20
Chloroform	50.0	47.6		ug/L		95	79 - 124	2	20
Chloromethane	50.0	47.2		ug/L		94	50 - 139	3	20
cis-1,2-Dichloroethene	50.0	48.3		ug/L		97	78 - 123	2	20
cis-1,3-Dichloropropene	50.0	51.8		ug/L		104	75 - 124	1	20
Dibromochloromethane	50.0	51.1		ug/L		102	74 - 126	1	20
Dibromomethane	50.0	49.2		ug/L		98	79 - 123	2	20
Dichlorodifluoromethane	50.0	51.2		ug/L		102	32 - 152	3	20
Ethylbenzene	50.0	46.7		ug/L		93	79 - 121	0	20
Isopropylbenzene	50.0	51.3		ug/L		103	72 - 131	2	20
m,p-Xylenes	50.0	49.1		ug/L		98	80 - 121	0	20
Methyl tert-butyl ether	50.0	50.1		ug/L		100	71 - 124	2	20
Methylene Chloride	50.0	49.0		ug/L		98	74 - 124	2	20
Naphthalene	50.0	52.8		ug/L		106	61 - 128	1	20
n-Butylbenzene	50.0	49.9		ug/L		100	75 - 128	1	20
N-Propylbenzene	50.0	50.5		ug/L		101	76 - 126	1	20

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

Lab Sample ID: LCSD 160-358977/5
Matrix: Water
Analysis Batch: 358977

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	48.5		ug/L		97	78 - 122	2	20
p-Isopropyltoluene			50.0	50.1		ug/L		100	77 - 127	1	20
sec-Butylbenzene			50.0	49.3		ug/L		99	77 - 126	1	20
Styrene			50.0	49.8		ug/L		100	78 - 123	3	20
tert-Butylbenzene			50.0	49.6		ug/L		99	78 - 124	2	20
Tetrachloroethene			50.0	49.2		ug/L		98	74 - 129	1	20
Toluene			50.0	49.3		ug/L		99	80 - 121	0	20
trans-1,2-Dichloroethene			50.0	49.2		ug/L		98	75 - 124	0	20
trans-1,3-Dichloropropene			50.0	52.0		ug/L		104	73 - 127	1	20
Trichloroethene			50.0	47.3		ug/L		95	79 - 123	2	20
Trichlorofluoromethane			50.0	46.7		ug/L		93	65 - 141	1	20
Vinyl chloride			50.0	46.1		ug/L		92	58 - 137	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*81 - 118*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*
Dibromofluoromethane (Surr)	*102*		*80 - 119*
Toluene-d8 (Surr)	*101*		*89 - 112*

Lab Sample ID: 280-107941-1 MS
Matrix: Water
Analysis Batch: 358977

Client Sample ID: 6MW2007MS
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	51.3		ug/L		103	78 - 124
1,1,1-Trichloroethane	1.0	U	50.0	51.8		ug/L		104	74 - 131
1,1,2,2-Tetrachloroethane	2.0	U	50.0	48.0		ug/L		96	71 - 121
1,1,2-Trichloroethane	1.0	U	50.0	50.5		ug/L		101	80 - 119
1,1-Dichloroethane	1.0	U	50.0	50.9		ug/L		102	77 - 125
1,1-Dichloroethene	1.0	U	50.0	50.8		ug/L		102	71 - 131
1,1-Dichloropropene	1.0	U	50.0	51.5		ug/L		103	79 - 125
1,2,3-Trichlorobenzene	2.0	U	50.0	53.1		ug/L		106	69 - 129
1,2,3-Trichloropropane	1.0	U	50.0	48.3		ug/L		97	73 - 122
1,2,4-Trimethylbenzene	2.0	U	50.0	50.6		ug/L		101	76 - 124
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	47.1		ug/L		94	62 - 128
1,2-Dibromoethane	2.0	U	50.0	51.3		ug/L		103	80 - 120
1,2-Dichloroethane	1.0	U	50.0	50.1		ug/L		100	73 - 128
1,2-Dichloropropane	1.0	U	50.0	52.9		ug/L		106	78 - 122
1,3,5-Trimethylbenzene	2.0	U	50.0	50.3		ug/L		101	75 - 124
1,3-Dichloropropane	1.0	U	50.0	50.2		ug/L		100	80 - 119
2,2-Dichloropropane	2.0	U	50.0	51.4		ug/L		103	60 - 139
2-Butanone (MEK)	5.0	U	50.0	52.0		ug/L		104	56 - 143
2-Chlorotoluene	2.0	U	50.0	50.1		ug/L		100	79 - 122
2-Hexanone	2.0	U	50.0	50.9		ug/L		102	57 - 139
4-Chlorotoluene	2.0	U	50.0	50.6		ug/L		101	78 - 122
4-Methyl-2-pentanone (MIBK)	2.0	U	50.0	51.3		ug/L		103	67 - 130
Acetone	10	U	50.0	51.0		ug/L		102	39 - 160
Benzene	1.0	U	50.0	49.4		ug/L		99	79 - 120

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

Lab Sample ID: 280-107941-1 MS
Matrix: Water
Analysis Batch: 358977

Client Sample ID: 6MW2007MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2.0	U	50.0	49.5		ug/L		99	80 - 120
Bromochloromethane	2.0	U	50.0	53.0		ug/L		106	78 - 123
Bromodichloromethane	2.0	U	50.0	52.1		ug/L		104	79 - 125
Bromoform	1.0	U	50.0	50.7		ug/L		101	66 - 130
Bromomethane	2.0	U	50.0	48.3		ug/L		97	53 - 141
Carbon disulfide	1.0	U	50.0	52.1		ug/L		104	64 - 133
Carbon tetrachloride	1.0	U	50.0	51.5		ug/L		103	72 - 136
Chlorobenzene	1.0	U	50.0	50.9		ug/L		102	82 - 118
Chloroethane	1.0	U	50.0	46.6		ug/L		93	60 - 138
Chloroform	1.0	U	50.0	50.7		ug/L		101	79 - 124
Chloromethane	2.0	U	50.0	46.2		ug/L		92	50 - 139
cis-1,2-Dichloroethene	0.80	J	50.0	51.7		ug/L		102	78 - 123
cis-1,3-Dichloropropene	1.0	U	50.0	52.9		ug/L		106	75 - 124
Dibromochloromethane	1.0	U	50.0	52.7		ug/L		105	74 - 126
Dibromomethane	2.0	U	50.0	52.4		ug/L		105	79 - 123
Dichlorodifluoromethane	2.0	U	50.0	51.7		ug/L		103	32 - 152
Ethylbenzene	1.0	U	50.0	48.7		ug/L		97	79 - 121
Isopropylbenzene	2.0	U	50.0	51.2		ug/L		102	72 - 131
m,p-Xylenes	1.0	U	50.0	50.4		ug/L		101	80 - 121
Methyl tert-butyl ether	2.0	U	50.0	50.7		ug/L		101	71 - 124
Methylene Chloride	5.0	U	50.0	51.3		ug/L		103	74 - 124
Naphthalene	2.0	U	50.0	51.8		ug/L		104	61 - 128
n-Butylbenzene	2.0	U	50.0	51.2		ug/L		102	75 - 128
N-Propylbenzene	2.0	U	50.0	50.7		ug/L		101	76 - 126
o-Xylene	1.0	U	50.0	50.1		ug/L		100	78 - 122
p-Isopropyltoluene	2.0	U	50.0	50.6		ug/L		101	77 - 127
sec-Butylbenzene	2.0	U	50.0	50.0		ug/L		100	77 - 126
Styrene	1.0	U	50.0	51.7		ug/L		103	78 - 123
tert-Butylbenzene	2.0	U	50.0	49.7		ug/L		99	78 - 124
Tetrachloroethene	1.0	U	50.0	49.6		ug/L		99	74 - 129
Toluene	1.0	U	50.0	50.1		ug/L		100	80 - 121
trans-1,2-Dichloroethene	1.0	U	50.0	50.5		ug/L		101	75 - 124
trans-1,3-Dichloropropene	1.0	U	50.0	52.8		ug/L		106	73 - 127
Trichloroethene	1.0	U	50.0	50.3		ug/L		101	79 - 123
Trichlorofluoromethane	2.0	U	50.0	49.0		ug/L		98	65 - 141
Vinyl chloride	1.0	U M	50.0	45.7		ug/L		91	58 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*
4-Bromofluorobenzene (Surr)	*99*		*85 - 114*
Dibromofluoromethane (Surr)	*101*		*80 - 119*
Toluene-d8 (Surr)	*95*		*89 - 112*

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

Lab Sample ID: 280-107941-1 MSD
Matrix: Water
Analysis Batch: 358977

Client Sample ID: 6MW2007MSD
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	49.3		ug/L		99	78 - 124	4	20
1,1,1-Trichloroethane	1.0	U	50.0	50.1		ug/L		100	74 - 131	3	20
1,1,2,2-Tetrachloroethane	2.0	U	50.0	47.0		ug/L		94	71 - 121	2	20
1,1,2-Trichloroethane	1.0	U	50.0	48.7		ug/L		97	80 - 119	4	20
1,1-Dichloroethane	1.0	U	50.0	49.7		ug/L		99	77 - 125	2	20
1,1-Dichloroethene	1.0	U	50.0	49.9		ug/L		100	71 - 131	2	20
1,1-Dichloropropene	1.0	U	50.0	50.5		ug/L		101	79 - 125	2	20
1,2,3-Trichlorobenzene	2.0	U	50.0	54.9		ug/L		110	69 - 129	3	20
1,2,3-Trichloropropane	1.0	U	50.0	46.5		ug/L		93	73 - 122	4	20
1,2,4-Trimethylbenzene	2.0	U	50.0	49.6		ug/L		99	76 - 124	2	20
1,2-Dibromo-3-Chloropropane	2.0	U	50.0	53.7		ug/L		107	62 - 128	13	20
1,2-Dibromoethane	2.0	U	50.0	49.4		ug/L		99	80 - 120	4	20
1,2-Dichloroethane	1.0	U	50.0	48.6		ug/L		97	73 - 128	3	20
1,2-Dichloropropane	1.0	U	50.0	50.6		ug/L		101	78 - 122	4	20
1,3,5-Trimethylbenzene	2.0	U	50.0	49.6		ug/L		99	75 - 124	1	20
1,3-Dichloropropane	1.0	U	50.0	47.5		ug/L		95	80 - 119	6	20
2,2-Dichloropropane	2.0	U	50.0	52.2		ug/L		104	60 - 139	1	20
2-Butanone (MEK)	5.0	U	50.0	49.0		ug/L		98	56 - 143	6	20
2-Chlorotoluene	2.0	U	50.0	48.9		ug/L		98	79 - 122	2	20
2-Hexanone	2.0	U	50.0	49.8		ug/L		100	57 - 139	2	20
4-Chlorotoluene	2.0	U	50.0	49.6		ug/L		99	78 - 122	2	20
4-Methyl-2-pentanone (MIBK)	2.0	U	50.0	49.1		ug/L		98	67 - 130	4	20
Acetone	10	U	50.0	47.5		ug/L		95	39 - 160	7	20
Benzene	1.0	U	50.0	48.4		ug/L		97	79 - 120	2	20
Bromobenzene	2.0	U	50.0	49.1		ug/L		98	80 - 120	1	20
Bromochloromethane	2.0	U	50.0	51.4		ug/L		103	78 - 123	3	20
Bromodichloromethane	2.0	U	50.0	50.8		ug/L		102	79 - 125	2	20
Bromoform	1.0	U	50.0	51.3		ug/L		103	66 - 130	1	20
Bromomethane	2.0	U	50.0	47.2		ug/L		94	53 - 141	2	20
Carbon disulfide	1.0	U	50.0	51.4		ug/L		103	64 - 133	2	20
Carbon tetrachloride	1.0	U	50.0	50.0		ug/L		100	72 - 136	3	20
Chlorobenzene	1.0	U	50.0	49.5		ug/L		99	82 - 118	3	20
Chloroethane	1.0	U	50.0	45.5		ug/L		91	60 - 138	2	20
Chloroform	1.0	U	50.0	49.4		ug/L		99	79 - 124	3	20
Chloromethane	2.0	U	50.0	46.1		ug/L		92	50 - 139	0	20
cis-1,2-Dichloroethene	0.80	J	50.0	50.6		ug/L		100	78 - 123	2	20
cis-1,3-Dichloropropene	1.0	U	50.0	51.6		ug/L		103	75 - 124	3	20
Dibromochloromethane	1.0	U	50.0	50.7		ug/L		101	74 - 126	4	20
Dibromomethane	2.0	U	50.0	50.9		ug/L		102	79 - 123	3	20
Dichlorodifluoromethane	2.0	U	50.0	51.6		ug/L		103	32 - 152	0	20
Ethylbenzene	1.0	U	50.0	46.8		ug/L		94	79 - 121	4	20
Isopropylbenzene	2.0	U	50.0	50.5		ug/L		101	72 - 131	1	20
m,p-Xylenes	1.0	U	50.0	48.6		ug/L		97	80 - 121	4	20
Methyl tert-butyl ether	2.0	U	50.0	51.1		ug/L		102	71 - 124	1	20
Methylene Chloride	5.0	U	50.0	50.1		ug/L		100	74 - 124	2	20
Naphthalene	2.0	U	50.0	53.3		ug/L		107	61 - 128	3	20
n-Butylbenzene	2.0	U	50.0	49.4		ug/L		99	75 - 128	4	20
N-Propylbenzene	2.0	U	50.0	50.2		ug/L		100	76 - 126	1	20

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

Lab Sample ID: 280-107941-1 MSD
Matrix: Water
Analysis Batch: 358977

Client Sample ID: 6MW2007MSD
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	48.3		ug/L		97	78 - 122	4	20
p-Isopropyltoluene	2.0	U	50.0	49.4		ug/L		99	77 - 127	2	20
sec-Butylbenzene	2.0	U	50.0	49.1		ug/L		98	77 - 126	2	20
Styrene	1.0	U	50.0	50.4		ug/L		101	78 - 123	3	20
tert-Butylbenzene	2.0	U	50.0	49.1		ug/L		98	78 - 124	1	20
Tetrachloroethene	1.0	U	50.0	48.6		ug/L		97	74 - 129	2	20
Toluene	1.0	U	50.0	48.8		ug/L		98	80 - 121	3	20
trans-1,2-Dichloroethene	1.0	U	50.0	49.6		ug/L		99	75 - 124	2	20
trans-1,3-Dichloropropene	1.0	U	50.0	51.2		ug/L		102	73 - 127	3	20
Trichloroethene	1.0	U	50.0	48.8		ug/L		98	79 - 123	3	20
Trichlorofluoromethane	2.0	U	50.0	47.1		ug/L		94	65 - 141	4	20
Vinyl chloride	1.0	U M	50.0	45.3		ug/L		91	58 - 137	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*
4-Bromofluorobenzene (Surr)	*99*		*85 - 114*
Dibromofluoromethane (Surr)	*98*		*80 - 119*
Toluene-d8 (Surr)	*95*		*89 - 112*

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

Lab Sample ID: MB 280-411274/35
Matrix: Water
Analysis Batch: 411274

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	0.175	J	1.0	0.16	mg/L			04/13/18 03:38	1

Lab Sample ID: LCS 280-411274/34
Matrix: Water
Analysis Batch: 411274

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	24.6		mg/L		98	88 - 112

Lab Sample ID: 280-107941-2 MS
Matrix: Water
Analysis Batch: 411274

Client Sample ID: 6MW2007D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Quad	3.5		25.0	27.6		mg/L		96	88 - 112

Lab Sample ID: 280-107941-2 MSD
Matrix: Water
Analysis Batch: 411274

Client Sample ID: 6MW2007D
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	3.5		25.0	28.3		mg/L		99	88 - 112	2	15

QC Association Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY - Site 6

TestAmerica Job ID: 280-107941-1

GC/MS VOA

Analysis Batch: 358977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-107941-1	6MW2007	Total/NA	Water	8260C DOD	
280-107941-2	6MW2007D	Total/NA	Water	8260C DOD	
280-107941-3	6MW2207	Total/NA	Water	8260C DOD	
280-107941-4	6MW2307	Total/NA	Water	8260C DOD	
280-107941-5	6MW2407	Total/NA	Water	8260C DOD	
280-107941-6	6MW2507	Total/NA	Water	8260C DOD	
280-107941-7	6MW2607	Total/NA	Water	8260C DOD	
280-107941-8	TB08	Total/NA	Water	8260C DOD	
280-107941-9	FB04	Total/NA	Water	8260C DOD	
MB 160-358977/7	Method Blank	Total/NA	Water	8260C DOD	
LCS 160-358977/4	Lab Control Sample	Total/NA	Water	8260C DOD	
LCSD 160-358977/5	Lab Control Sample Dup	Total/NA	Water	8260C DOD	
280-107941-1 MS	6MW2007MS	Total/NA	Water	8260C DOD	
280-107941-1 MSD	6MW2007MSD	Total/NA	Water	8260C DOD	

General Chemistry

Analysis Batch: 411274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-107941-1	6MW2007	Total/NA	Water	9060A	
280-107941-2	6MW2007D	Total/NA	Water	9060A	
280-107941-3	6MW2207	Total/NA	Water	9060A	
280-107941-4	6MW2307	Total/NA	Water	9060A	
280-107941-5	6MW2407	Total/NA	Water	9060A	
280-107941-6	6MW2507	Total/NA	Water	9060A	
280-107941-7	6MW2607	Total/NA	Water	9060A	
280-107941-9	FB04	Total/NA	Water	9060A	
MB 280-411274/35	Method Blank	Total/NA	Water	9060A	
LCS 280-411274/34	Lab Control Sample	Total/NA	Water	9060A	
280-107941-2 MS	6MW2007D	Total/NA	Water	9060A	
280-107941-2 MSD	6MW2007D	Total/NA	Water	9060A	

Client Sample ID: 6MW2007
Date Collected: 03/28/18 09:00
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-1
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	358977	04/04/18 18:06	JDH	TAL SL
Total/NA	Analysis	9060A		1			411274	04/13/18 04:36	A1D	TAL DEN

Client Sample ID: 6MW2007D
Date Collected: 03/28/18 09:05
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-2
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	358977	04/04/18 19:46	JDH	TAL SL
Total/NA	Analysis	9060A		1			411274	04/13/18 05:34	A1D	TAL DEN

Client Sample ID: 6MW2207
Date Collected: 03/28/18 10:20
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-3
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	358977	04/04/18 20:11	JDH	TAL SL
Total/NA	Analysis	9060A		1			411274	04/13/18 06:31	A1D	TAL DEN

Client Sample ID: 6MW2307
Date Collected: 03/28/18 11:05
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-4
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	358977	04/04/18 20:36	JDH	TAL SL
Total/NA	Analysis	9060A		1			411274	04/13/18 06:51	A1D	TAL DEN

Client Sample ID: 6MW2407
Date Collected: 03/28/18 12:00
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-5
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	358977	04/04/18 21:01	JDH	TAL SL
Total/NA	Analysis	9060A		1			411274	04/13/18 07:09	A1D	TAL DEN

Client Sample ID: 6MW2507
Date Collected: 03/28/18 13:15
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-6
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	358977	04/04/18 21:26	JDH	TAL SL

Client Sample ID: 6MW2507

Lab Sample ID: 280-107941-6

Date Collected: 03/28/18 13:15

Matrix: Water

Date Received: 03/30/18 08:50

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			411274	04/13/18 07:28	A1D	TAL DEN

Client Sample ID: 6MW2607

Lab Sample ID: 280-107941-7

Date Collected: 03/28/18 13:55

Matrix: Water

Date Received: 03/30/18 08:50

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	358977	04/04/18 21:51	JDH	TAL SL
Total/NA	Analysis	9060A		1			411274	04/13/18 07:47	A1D	TAL DEN

Client Sample ID: TB08

Lab Sample ID: 280-107941-8

Date Collected: 03/28/18 14:05

Matrix: Water

Date Received: 03/30/18 08:50

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	358977	04/04/18 17:16	JDH	TAL SL

Client Sample ID: FB04

Lab Sample ID: 280-107941-9

Date Collected: 03/28/18 14:00

Matrix: Water

Date Received: 03/30/18 08:50

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	358977	04/04/18 17:41	JDH	TAL SL
Total/NA	Analysis	9060A		1			411274	04/13/18 08:06	A1D	TAL DEN

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

Accreditation/Certification Summary

Client: Leidos, Inc. TestAmerica Job ID: 280-107941-1
Project/Site: Stratton ANGB, NY - Site 6

Laboratory: TestAmerica Denver

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

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-19

Analysis Method	Prep Method	Matrix	Analyte

Connecticut	State Program	1	PH-0686	09-30-18

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

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

Florida	NELAP	4	E87667	06-30-18

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

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

New Hampshire	NELAP	1	205310	04-28-18
New York	NELAP	2	11964	04-01-19

The following analytes are included in this report, but accreditation/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	07-31-18

The following analytes are included in this report, but accreditation/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 accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-18 *
Arizona	State Program	9	AZ0813	12-08-18
California	State Program	9	2886	06-30-18 *
Connecticut	State Program	1	PH-0241	03-31-19
Florida	NELAP	4	E87689	06-30-18 *
Illinois	NELAP	5	200023	11-30-18
Iowa	State Program	7	373	12-01-18
Kansas	NELAP	7	E-10236	10-31-18
Kentucky (DW)	State Program	4	90125	12-31-18
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-18
Louisiana (DW)	NELAP	6	LA180017	12-31-18
Maryland	State Program	3	310	09-30-18
Michigan	State Program	5	9005	06-30-18
Missouri	State Program	7	780	06-30-18
Nevada	State Program	9	MO000542018-1	07-31-18
New Jersey	NELAP	2	MO002	06-30-18 *
New York	NELAP	2	11616	03-31-19
North Dakota	State Program	8	R207	06-30-18
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-18
Pennsylvania	NELAP	3	68-00540	02-28-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Laboratory: TestAmerica St. Louis (Continued)

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

Authority	Program	EPA Region	Identification Number	Expiration Date
South Carolina	State Program	4	85002001	06-30-18
Texas	NELAP	6	T104704193-17-11	07-31-18
US Fish & Wildlife	Federal		058448	08-31-18
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-18
Virginia	NELAP	3	460230	06-14-18 *
Washington	State Program	10	C592	08-30-18
West Virginia DEP	State Program	3	381	08-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Leidos, Inc. TestAmerica Job ID: 280-107941-1
Project/Site: Stratton ANGB, NY - Site 6

Method	Method Description	Protocol	Laboratory
8260C DOD	Volatile Organic Compounds (GC/MS)	SW846	TAL SL
9060A	Organic Carbon, Total (TOC)	SW846	TAL DEN
5030C	Purge and Trap	SW846	TAL SL

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: Stratton ANGB, NY - Site 6

TestAmerica Job ID: 280-107941-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-107941-1	6MW2007	Water	03/28/18 09:00	03/30/18 08:50
280-107941-2	6MW2007D	Water	03/28/18 09:05	03/30/18 08:50
280-107941-3	6MW2207	Water	03/28/18 10:20	03/30/18 08:50
280-107941-4	6MW2307	Water	03/28/18 11:05	03/30/18 08:50
280-107941-5	6MW2407	Water	03/28/18 12:00	03/30/18 08:50
280-107941-6	6MW2507	Water	03/28/18 13:15	03/30/18 08:50
280-107941-7	6MW2607	Water	03/28/18 13:55	03/30/18 08:50
280-107941-8	TB08	Water	03/28/18 14:05	03/30/18 08:50
280-107941-9	FB04	Water	03/28/18 14:00	03/30/18 08:50

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Instrument ID: VMSX Analysis Batch Number: 358742

Lab Sample ID: IC 160-358742/5 Client Sample ID:

Date Analyzed: 04/03/18 22:42 Lab File ID: XICL1620.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	2.06	Peak assignment corrected	hannj	04/04/18 14:32
Acetone	4.65	Peak assignment corrected	hannj	04/04/18 14:32
Ethyl acrylate	9.21	Peak assignment corrected	hannj	04/04/18 14:32
1,4-Dioxane	9.49	Missed Peak	hannj	04/04/18 14:32

Lab Sample ID: IC 160-358742/6 Client Sample ID:

Date Analyzed: 04/03/18 23:07 Lab File ID: XICL1621.D GC Column: RTXVMS30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl tert-butyl ether	5.01	Peak assignment corrected	hannj	04/04/18 14:33
1,4-Dioxane	9.49	Missed Peak	hannj	04/04/18 14:34

Lab Sample ID: IC 160-358742/7 Client Sample ID:

Date Analyzed: 04/03/18 23:32 Lab File ID: XICL1622.D GC Column: RTXVMS30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl tert-butyl ether	5.00	Peak assignment corrected	hannj	04/04/18 14:38
1,4-Dioxane	9.49	Peak assignment corrected	hannj	04/04/18 14:38

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Instrument ID: VMSX Analysis Batch Number: 358977

Lab Sample ID: CCV 160-358977/3 Client Sample ID:

Date Analyzed: 04/04/18 14:59 Lab File ID: XCCV1631.D GC Column: RTXVMS30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethyl methacrylate	11.02	Peak assignment corrected	hannj	04/04/18 19:40

Lab Sample ID: 280-107941-1 Client Sample ID: 6MW2007

Date Analyzed: 04/04/18 18:06 Lab File ID: XSMP1638.D GC Column: RTXVMS30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.20	Peak assignment corrected	hannj	04/04/18 19:44

Lab Sample ID: 280-107941-2 Client Sample ID: 6MW2007D

Date Analyzed: 04/04/18 19:46 Lab File ID: XSMP1642.D GC Column: RTXVMS30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.20	Peak assignment corrected	hannj	04/04/18 20:57

Lab Sample ID: 280-107941-3 Client Sample ID: 6MW2207

Date Analyzed: 04/04/18 20:11 Lab File ID: XSMP1643.D GC Column: RTXVMS30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.20	Peak assignment corrected	hannj	04/04/18 20:58

Lab Sample ID: 280-107941-7 Client Sample ID: 6MW2607

Date Analyzed: 04/04/18 21:51 Lab File ID: XSMP1647.D GC Column: RTXVMS30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.20	Peak assignment corrected	hannj	04/05/18 14:20

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
TOC ICV Std_00033	06/30/18		Ricca, Lot 4706c18		(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm
TOC LCS Std_00039	10/31/19		Ultra Scientific, Lot CR-4416		(Purchased Reagent)		Total Organic Carbon - Quad	1000 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
8260 NewWkMix_00269	04/08/18	04/01/18	Methanol, Lot 177891	10 mL	8260_2_CLEVE_00064	100 uL	2-Chloroethyl vinyl ether	25 ug/mL
					8260Custom1_00063	125 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	25 ug/mL
							n-Nonyl Aldehyde	25 ug/mL
					8260Cyclohexa_00064	100 uL	Cyclohexanone	250 ug/mL
					8260Gases_00254	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_00064	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_00064	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.: 280-107941-1

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-1,3-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_00068	50 uL	Vinyl acetate	25 ug/mL
					Acrolein_00059	62.5 uL	Acrolein	125 ug/mL
					Adds(A) 2016_00026	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
							Benzyl chloride	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isooctane	25 ug/mL
							Isopropyl alcohol	250 ug/mL
							Methacrylonitrile	250 ug/mL
							n-Butanol	625 ug/mL
					Adds(B) 2016_00026	100 uL	Ethyl acetate	50 ug/mL
							Ethyl acrylate	25 ug/mL
							Methyl methacrylate	50 ug/mL
							n-Butyl acetate	25 ug/mL
					Ethanol P_00014	100 uL	Ethanol	1000 ug/mL
					Polar Add._00056	100 uL	Acetonitrile	250 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_00064	05/01/18		Restek, Lot A0123891		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.8260Custom1_00063	04/11/18		Accustandard, Lot 217121099		(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00064	05/01/18		Restek, Lot A0124672		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.8260Gases_00254	04/08/18		Restek, Lot A0131502		(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_00064	05/01/18		Restek, Lot A0131486		(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_00064	05/01/18		Restek, Lot A0123711		(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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-1,3-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00068	04/30/18		Restek, Lot A0131948		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00059	04/18/18		Restek, Lot A0132611		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A) 2016_00026	04/18/18		Restek, Lot A0132816		(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_00026	04/18/18		Restek, Lot A0131668		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Ethanol P_00014	04/11/18		Restek, Lot A0132270		(Purchased Reagent)		Ethanol	100000 ug/mL
.Polar Add._00056	05/01/18		Restek, Lot A0123796		(Purchased Reagent)		Acetonitrile	25000 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_00269	04/08/18	04/01/18	Methanol, Lot 177891	10 mL	8260MegaMix_00064	100 uL	cis-1,2-Dichloroethene	25 ug/mL
.8260MegaMix_00064	05/01/18		Restek, Lot A0123711		(Purchased Reagent)		cis-1,2-Dichloroethene	2500 ug/mL
8260 Surr 25_00085	04/06/18	03/06/18	Methanol, Lot 177891	25 mL	8260_Surr_00057	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_00057	04/06/18		Restek, Lot A0132615		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
							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_00244	04/08/18	04/01/18	Methanol, Lot 177891	1 mL	8260_2_CLEVE_00064	50 uL	2-Chloroethyl vinyl ether	125 ug/mL
					8260Custom1_00063	62.5 uL	1,2-Dichloro-1,1,2,2-tetrafluoroethane	125 ug/mL
							n-Nonyl Aldehyde	125 ug/mL
					8260Cyclohexa_00064	50 uL	Cyclohexanone	1250 ug/mL

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					8260Gases_00254	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_00064	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_00064	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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

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-1,3-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_00068	25 uL	Vinyl acetate	125 ug/mL
					Acrolein_00059	31.25 uL	Acrolein	625 ug/mL
					Adds(A) 2016_00026	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_00026	50 uL	Ethyl acetate	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acrylate	125 ug/mL
							Methyl methacrylate	250 ug/mL
							n-Butyl acetate	125 ug/mL
					Ethanol P_00014	50 uL	Ethanol	5000 ug/mL
					Polar Add._00056	50 uL	Acetonitrile	1250 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_00064	05/01/18		Restek, Lot A0123891		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.8260Custom1_00063	04/11/18		Accustandard, Lot 217121099		(Purchased Reagent)		1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							n-Nonyl Aldehyde	2000 ug/mL
.8260Cyclohexa_00064	05/01/18		Restek, Lot A0124672		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.8260Gases_00254	04/08/18		Restek, Lot A0131502		(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_00064	05/01/18		Restek, Lot A0131486		(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_00064	05/01/18		Restek, Lot A0123711		(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
							1,4-Dichlorobenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-1,3-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	2500 ug/mL
.8260VinAcetat_00068	04/30/18		Restek, Lot A0131948		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.Acrolein_00059	04/18/18		Restek, Lot A0132611		(Purchased Reagent)		Acrolein	20000 ug/mL
.Adds(A) 2016_00026	04/18/18		Restek, Lot A0132816		(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_00026	04/18/18		Restek, Lot A0131668		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.Ethanol P_00014	04/11/18		Restek, Lot A0132270		(Purchased Reagent)		Ethanol	100000 ug/mL
.Polar Add._00056	05/01/18		Restek, Lot A0123796		(Purchased Reagent)		Acetonitrile	25000 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_00257	04/08/18	04/01/18	Methanol, Lot 177891	5 mL	8260GasesSS_00255	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_00063	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_00063	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00255	04/08/18		Restek, Lot A0132373		(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_00063	05/01/18		Restek, Lot A0133078		(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_00063	05/01/18		Restek, Lot A0123775		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-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
							trans-1,3-Dichloropropene	2500 ug/mL
							Trichloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
BFB_00081							1,2-Dichloroethene, Total	
							BFB	25 ug/mL
							Tentatively Identified Compound	
							Trihalomethanes, Total	
I.S. Working_00163	04/26/18	03/26/18	Methanol, Lot 177891	25 mL	8260 IS(2014)_00051	250 uL	1,4-Dichlorobenzene-d4	25 ug/mL
							Chlorobenzene-d5	25 ug/mL
							Fluorobenzene	25 ug/mL
.8260 IS(2014)_00051	04/26/18	Restek, Lot A0131578			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL

Reagent

TOC ICV Std_00033

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Batesville, IN 47006
http://www.riccachemical.com
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customerservice@riccachemical.com

Certificate of Analysis

Organic Carbon Standard, 1000 ppm C

Lot Number: 4706C18 **Product Number:** 1847

Manufacture Date: JUN 12, 2017
Expiration Date: JUN 2018

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)
1847-32	1 L amber glass	12 months
1847-16	500 mL amber glass	12 months

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

Jim Gibbs (06/12/2017)
Quality Control Supervisor
This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

Reagent

8260 IS(2014)_00051

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Certificate #3222.02

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.:** A0131578

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 : October 31, 2022 **Storage:** 0°C or colder

REC'D 2-22-18
JDH
1387681-682

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%	2,522.1 µg/mL	+/- 14.6637 µg/mL +/- 141.4116 µg/mL +/- 144.7205 µg/mL	Gravimetric Unstressed Stressed
2	Chlorobenzene-d5 **CAS #** 3114-55-4 (Lot PR-23926) **Purity** 99%	2,518.6 µg/mL	+/- 14.6434 µg/mL +/- 141.2154 µg/mL +/- 144.5197 µg/mL	Gravimetric Unstressed Stressed
3	1,4-Dichlorobenzene-d4 **CAS #** 3855-82-1 (Lot PR-18488) **Purity** 99%	2,520.5 µg/mL	+/- 14.6544 µg/mL +/- 141.3219 µg/mL +/- 144.6287 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)

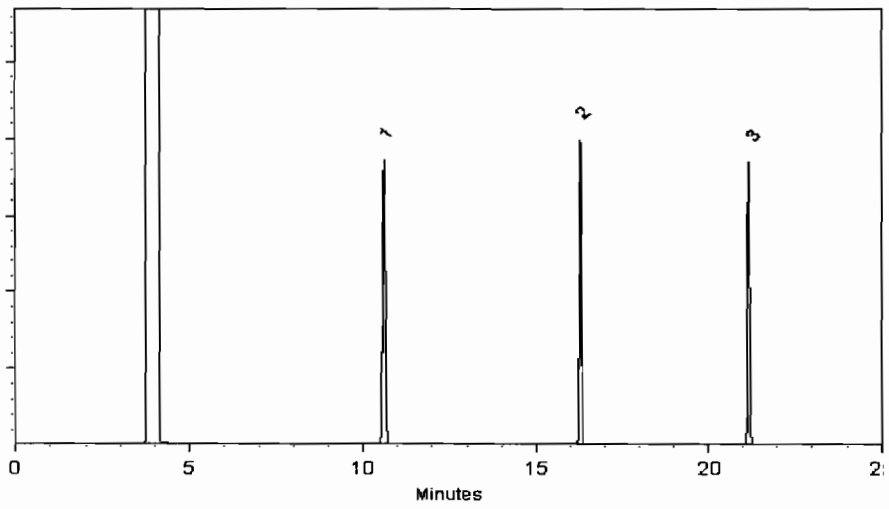
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Tom Suckar - Mix Technician

Date Mixed: 11-Oct-2017 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 13-Oct-2017

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

Reagent

8260_2_CLEVE_00064

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Certificate #3222.02

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.:** A0123891

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

REC'D 2-22-18 JDH

1391313-1314

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

Expiration Date : January 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Chloroethyl vinyl ether	2,503.5 µg/mL	+/- 14.5556 µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBS6526V)		+/- 53.6004 µg/mL	Unstressed
	Purity 98%		+/- 55.1587 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)

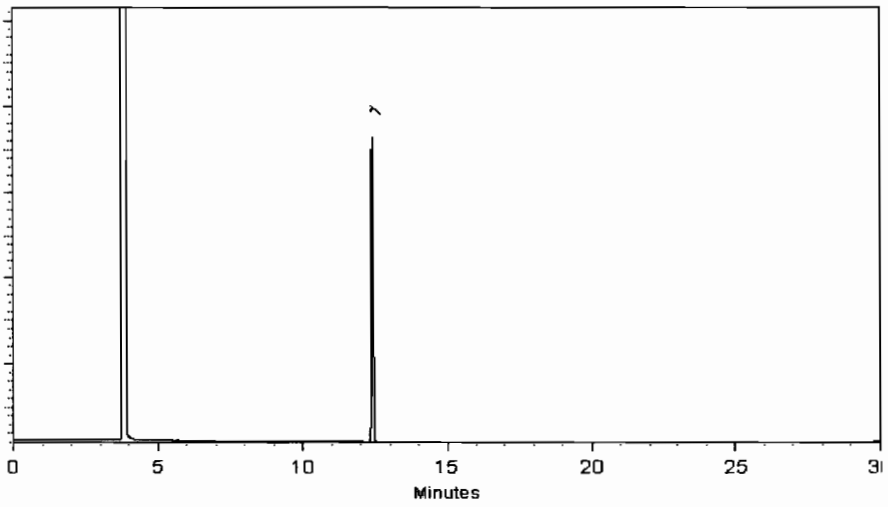
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cathleen Soltis - Mix Technician

Date Mixed: 03-Jan-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 05-Jan-2017

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

Reagent

8260_Surr_00057

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 567650 **Lot No.:** A0132615

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul

REC'D 2-22-18 JOH

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2022 **Storage:** 0°C or colder

1391360 -361

CERTIFIED VALUES

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

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

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

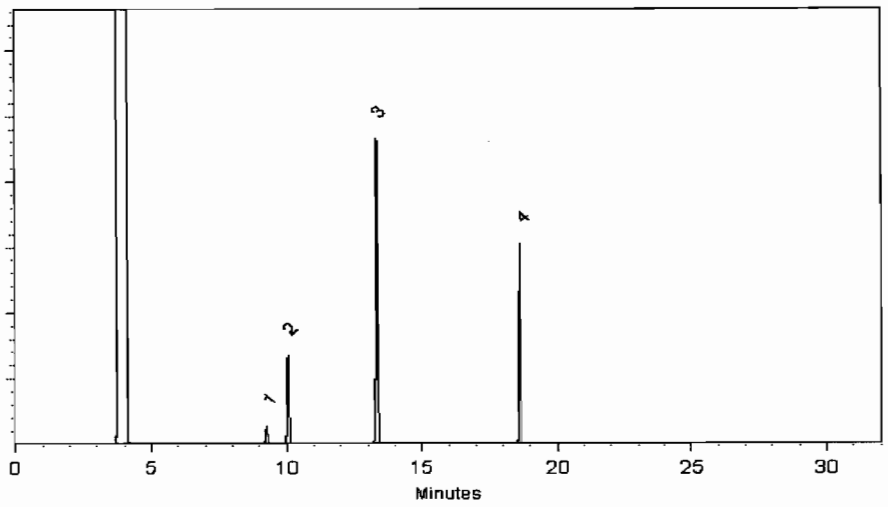
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Michael J Maye

Date Mixed: 21-Nov-2017 **Balance:** 1127510105

Jennifer D Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 22-Nov-2017

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

Reagent

8260Custom1_00063

125 Market Street
New Haven, CT 06513
USA

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Fax (203)786-5287
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CERTIFICATE OF ANALYSIS

Catalog No: S-26138
Description: Custom VOC Standard
Lot: 217121099
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Rec'd 12-13-17 JDH

Date Certified: Dec 11, 2017
Expiration: Jan 11, 2019
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



Signal Word: Danger

1346894 - 898

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	2012	2012

A product with a 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 certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents 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.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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

   AR-1463

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

   AT-1339

   ISO 9001:2015 - 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. This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

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 ±5%, the U_{CRM} for inorganic products is ±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_00064

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

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.:** A0124672

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000 µg/ml, Water, 1 ml/ampul

REC'D 2-22-18
JDH

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

Expiration Date : February 29, 2020 **Storage:** 10°C or colder

1391280-281

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Cyclohexanone	25,006.0 µg/mL	+/- 146.4156 µg/mL	Gravimetric
	CAS # 108-94-1 (Lot MKBN5282V)		+/- 1,508.8223 µg/mL	Unstressed
	Purity 99%		+/- 1,512.4040 µg/mL	Stressed

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

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

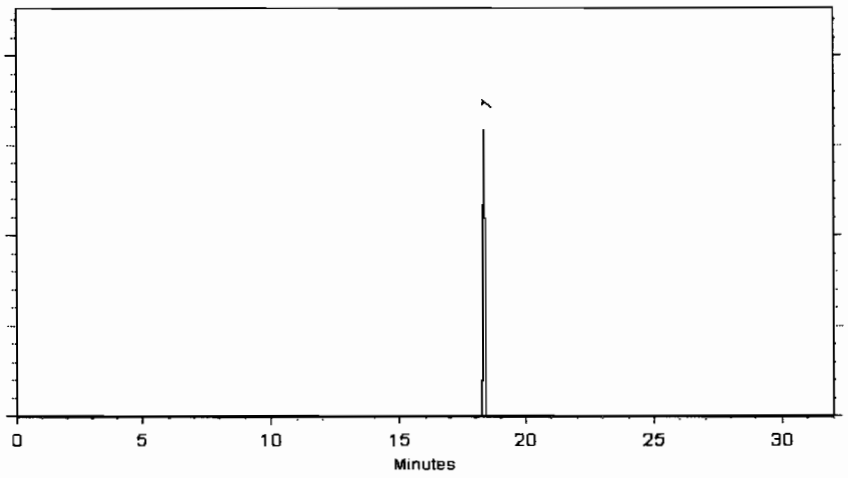
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Tom Suckar - Mix Technician

Date Mixed: 03-Feb-2017 **Balance:** 1125113331

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 07-Feb-2017

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

Reagent

8260Gases_00254

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569722 **Lot No.:** A0131502

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

REC'D 2-22-18 JOH

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

Expiration Date : October 31, 2020 **Storage:** 0°C or colder

1393184-188

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)		2,501.3	µg/mL	+/- 20.2137	µg/mL	Gravimetric
	CAS # 75-71-8	(Lot Q167-08)			+/- 140.9452	µg/mL	Unstressed
	Purity 99%				+/- 144.2108	µg/mL	Stressed
2	Chloromethane (methyl chloride)		2,504.9	µg/mL	+/- 24.8531	µg/mL	Gravimetric
	CAS # 74-87-3	(Lot SHBG9707V)			+/- 141.8827	µg/mL	Unstressed
	Purity 99%				+/- 145.1364	µg/mL	Stressed
3	Vinyl chloride		2,498.3	µg/mL	+/- 21.7258	µg/mL	Gravimetric
	CAS # 75-01-4	(Lot 1026101231B1)			+/- 141.0069	µg/mL	Unstressed
	Purity 99%				+/- 144.2635	µg/mL	Stressed
4	1,3-Butadiene		2,499.9	µg/mL	+/- 19.8572	µg/mL	Gravimetric
	CAS # 106-99-0	(Lot SHBH7966)			+/- 140.8167	µg/mL	Unstressed
	Purity 99%				+/- 144.0816	µg/mL	Stressed
5	Bromomethane (methyl bromide)		2,500.4	µg/mL	+/- 24.9675	µg/mL	Gravimetric
	CAS # 74-83-9	(Lot 101604)			+/- 141.6590	µg/mL	Unstressed
	Purity 99%				+/- 144.9064	µg/mL	Stressed
6	Chloroethane (ethyl chloride)		2,500.1	µg/mL	+/- 25.2649	µg/mL	Gravimetric
	CAS # 75-00-3	(Lot 23593)			+/- 141.6931	µg/mL	Unstressed
	Purity 99%				+/- 144.9388	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)		2,500.0	µg/mL	+/- 16.7114	µg/mL	Gravimetric
	CAS # 75-43-4	(Lot 4938100)			+/- 140.4149	µg/mL	Unstressed
	Purity 99%				+/- 143.6892	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,499.5	µg/mL	+/-	20.7085	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot SHBH4155V)			+/-	140.9189	µg/mL	Unstressed
	Purity 99%				+/-	144.1805	µg/mL	Stressed

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

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

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

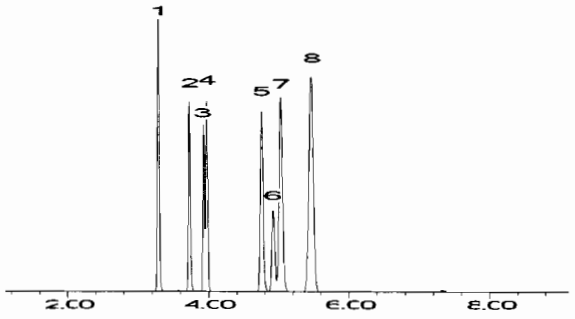
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°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.

F. Joseph Tallon - Mix Technician **Date Mixed:** 10-Oct-2017 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 12-Oct-2017

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

Reagent

8260GasesSS_00255

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569722.SEC **Lot No.:** A0132373

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

REC'D 2-22-18 JOH

1393189 - 193

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

Expiration Date : November 30, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 * (Lot 4938100) **Purity** 99%	2,510.0 µg/mL	+/- 14.7301 µg/mL +/- 140.7475 µg/mL +/- 144.0401 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,493.9 µg/mL	+/- 19.3055 µg/mL +/- 140.4113 µg/mL +/- 143.6700 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,523.8 µg/mL	+/- 31.0952 µg/mL +/- 144.1404 µg/mL +/- 147.3924 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 24033) **Purity** 99%	2,501.9 µg/mL	+/- 30.2025 µg/mL +/- 142.7555 µg/mL +/- 145.9822 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot Q119-46) **Purity** 99%	2,525.0 µg/mL	+/- 29.3300 µg/mL +/- 143.8354 µg/mL +/- 147.0973 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,513.4 µg/mL	+/- 37.7151 µg/mL +/- 145.1480 µg/mL +/- 148.3515 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8.SEC (Lot 24186) **Purity** 99%	2,509.1 µg/mL	+/- 22.9416 µg/mL +/- 141.7948 µg/mL +/- 145.0615 µg/mL	Gravimetric Unstressed Stressed

8	Trichlorofluoromethane (CFC-11)		2,516.5	µg/mL	+/-	37.7620	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	145.3288	µg/mL	Unstressed
	Purity 99%				+/-	148.5363	µg/mL	Stressed

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

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

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

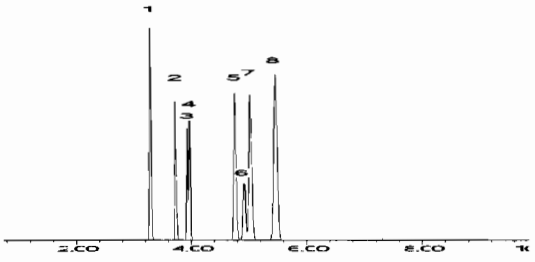
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°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.

Michael J Maye

Date Mixed: 13-Nov-2017 **Balance:** 1127510105

Jennifer J Pollino

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 16-Nov-2017

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

Reagent

8260Ketones_00064

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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.:** A0131486

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

REG'D 2-22-18
JOH
1391284-285

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

Expiration Date : October 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,466.0 µg/mL	+/- 72.9912 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot SHBG8398V)		+/- 752.1786 µg/mL	Unstressed
	Purity 99%		+/- 753.9642 µg/mL	Stressed
2	2-Butanone (MEK)	12,475.5 µg/mL	+/- 73.0468 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBF2461V)		+/- 752.7518 µg/mL	Unstressed
	Purity 99%		+/- 754.5387 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,539.0 µg/mL	+/- 73.4186 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBG7318V)		+/- 756.5833 µg/mL	Unstressed
	Purity 99%		+/- 758.3793 µg/mL	Stressed
4	2-Hexanone	12,496.0 µg/mL	+/- 73.1668 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKBW0198V)		+/- 753.9888 µg/mL	Unstressed
	Purity 99%		+/- 755.7786 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)

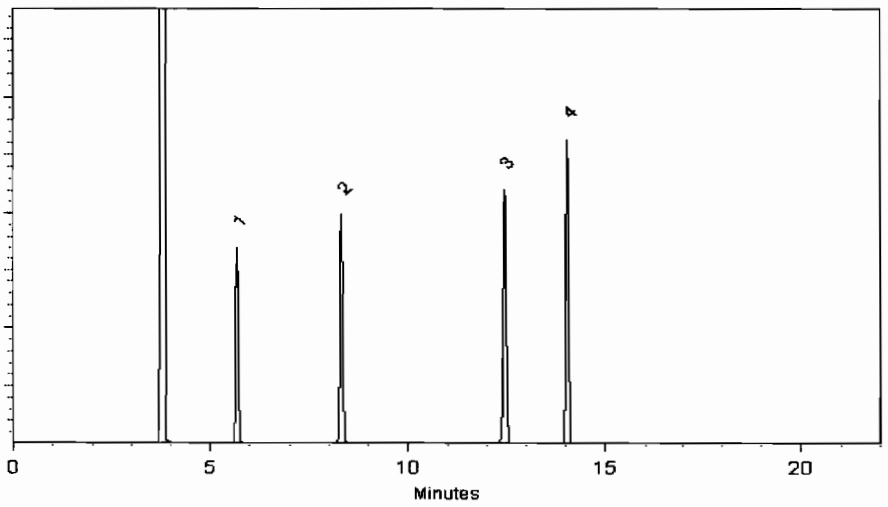
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cydnei L. Crust
Cydnei L. Crust - Mix Technician

Date Mixed: 09-Oct-2017 **Balance:** B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 11-Oct-2017

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

Reagent

8260KetonesSS_00063

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Catalog No. : 569721.SEC **Lot No.:** A0133078

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

REC'D 2-22-18
JM
1391286-287

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

Expiration Date : December 31, 2020 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	0.0 µg/mL	+/- < 0.0001	
	CAS # 67-64-1.SEC (Lot P14A572)		+/- < 0.0001	Unstressed
	Purity 99%		+/- < 0.0001	Stressed
2	2-Butanone (MEK)	0.0 µg/mL	+/- < 0.0001	
	CAS # 78-93-3.SEC (Lot RA58J)		+/- < 0.0001	Unstressed
	Purity 99%		+/- < 0.0001	Stressed
3	4-Methyl-2-pentanone (MIBK)	0.0 µg/mL	+/- < 0.0001	
	CAS # 108-10-1.SEC (Lot E29T040)		+/- < 0.0001	Unstressed
	Purity 99%		+/- < 0.0001	Stressed
4	2-Hexanone	0.0 µg/mL	+/- < 0.0001	
	CAS # 591-78-6.SEC (Lot V3NRA)		+/- < 0.0001	Unstressed
	Purity 99%		+/- < 0.0001	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)

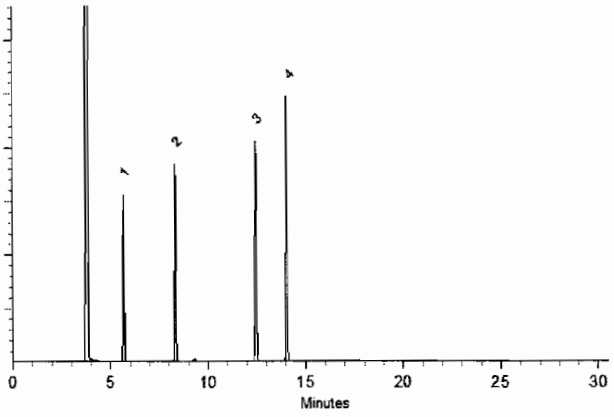
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Michael J Maye

Date Mixed: 07-Dec-2017 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 12-Dec-2017

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

Reagent

8260MegaMix_00064

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

Catalog No. : 571992 **Lot No.:** A0123711

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

REC'D 2-22-18 JDH

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

Expiration Date : December 31, 2018 **Storage:** 0°C or colder

1391288-289

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%	2,501.3 µg/mL	+/- 14.5425 µg/mL +/- 150.9115 µg/mL +/- 151.2698 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 (Lot 00009482) **Purity** 99%	2,505.1 µg/mL	+/- 14.5650 µg/mL +/- 151.1453 µg/mL +/- 151.5041 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBG8609V) **Purity** 99%	2,511.5 µg/mL	+/- 14.6021 µg/mL +/- 151.5299 µg/mL +/- 151.8897 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 (Lot SHBF0688V) **Purity** 99%	25,001.8 µg/mL	+/- 145.3547 µg/mL +/- 1,508.4656 µg/mL +/- 1,512.0470 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate **CAS #** 79-20-9 (Lot SHBG4345V) **Purity** 99%	5,000.5 µg/mL	+/- 29.0733 µg/mL +/- 301.7023 µg/mL +/- 302.4186 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) **CAS #** 74-88-4 (Lot SHBF2149V) **Purity** 99%	2,502.9 µg/mL	+/- 14.5519 µg/mL +/- 151.0095 µg/mL +/- 151.3681 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 (Lot SHBF8133V) **Purity** 99%	2,517.1 µg/mL	+/- 14.6348 µg/mL +/- 151.8693 µg/mL +/- 152.2299 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane)		2,502.1	µg/mL	+/-	14.5476	µg/mL	Gravimetric
	CAS # 75-09-2	(Lot SHBH2578V)			+/-	150.9643	µg/mL	Unstressed
	Purity 99%				+/-	151.3227	µg/mL	Stressed
9	Carbon disulfide		2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot S20A856)			+/-	150.9190	µg/mL	Unstressed
	Purity 99%				+/-	151.2773	µg/mL	Stressed
10	Acrylonitrile		25,001.3	µg/mL	+/-	145.3518	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot T07B2030)			+/-	1,508.4355	µg/mL	Unstressed
	Purity 99%				+/-	1,512.0167	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)		2,505.3	µg/mL	+/-	14.5657	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBG2655V)			+/-	151.1528	µg/mL	Unstressed
	Purity 99%				+/-	151.5117	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,500.5	µg/mL	+/-	14.5379	µg/mL	Gravimetric
	CAS # 156-59-2	(Lot MKBV2831V)			+/-	150.8644	µg/mL	Unstressed
	Purity 98%				+/-	151.2226	µg/mL	Stressed
13	n-Hexane (C6)		2,503.8	µg/mL	+/-	14.5570	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBG2674V)			+/-	151.0623	µg/mL	Unstressed
	Purity 99%				+/-	151.4210	µg/mL	Stressed
14	1,1-Dichloroethane		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 75-34-3	(Lot 00008621)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
15	2,2-Dichloropropane		2,501.0	µg/mL	+/-	14.5408	µg/mL	Gravimetric
	CAS # 594-20-7	(Lot BCBR0622V)			+/-	150.8940	µg/mL	Unstressed
	Purity 98%				+/-	151.2522	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,503.8	µg/mL	+/-	14.5570	µg/mL	Gravimetric
	CAS # 156-60-5	(Lot 09431AEV)			+/-	151.0623	µg/mL	Unstressed
	Purity 99%				+/-	151.4210	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,512.5	µg/mL	+/-	363.4341	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBG8201V)			+/-	3,771.6543	µg/mL	Unstressed
	Purity 99%				+/-	3,780.6088	µg/mL	Stressed
18	chloroform		2,501.9	µg/mL	+/-	14.5461	µg/mL	Gravimetric
	CAS # 67-66-3	(Lot MKBV2089V)			+/-	150.9492	µg/mL	Unstressed
	Purity 99%				+/-	151.3076	µg/mL	Stressed
19	Bromochloromethane		2,503.3	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00004559)			+/-	151.0322	µg/mL	Unstressed
	Purity 99%				+/-	151.3907	µg/mL	Stressed
20	Tetrahydrofuran		5,001.3	µg/mL	+/-	29.0777	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBG2910V)			+/-	301.7476	µg/mL	Unstressed
	Purity 99%				+/-	302.4640	µg/mL	Stressed
21	1,1,1-trichloroethane		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot B15W12061)			+/-	150.8512	µg/mL	Unstressed
	Purity 99%				+/-	151.2093	µg/mL	Stressed
22	Cyclohexane		2,502.0	µg/mL	+/-	14.5468	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKBX4768V)			+/-	150.9567	µg/mL	Unstressed
	Purity 99%				+/-	151.3151	µg/mL	Stressed
23	1,1-Dichloropropene		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 160727JLM)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed

24	carbon tetrachloride		2,503.3	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBG1763V)			+/-	151.0322	µg/mL	Unstressed
	Purity 99%				+/-	151.3907	µg/mL	Stressed
25	n-Heptane (C7)		2,505.5	µg/mL	+/-	14.5672	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBG6171V)			+/-	151.1679	µg/mL	Unstressed
	Purity 99%				+/-	151.5268	µg/mL	Stressed
26	1,2-Dichloroethane		2,504.8	µg/mL	+/-	14.5628	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot SHBF9313V)			+/-	151.1227	µg/mL	Unstressed
	Purity 99%				+/-	151.4815	µg/mL	Stressed
27	Benzene		2,506.9	µg/mL	+/-	14.5752	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBH2056V)			+/-	151.2509	µg/mL	Unstressed
	Purity 99%				+/-	151.6100	µg/mL	Stressed
28	Trichloroethene		2,502.4	µg/mL	+/-	14.5490	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBH1955V)			+/-	150.9794	µg/mL	Unstressed
	Purity 99%				+/-	151.3378	µg/mL	Stressed
29	Methylcyclohexane		2,500.3	µg/mL	+/-	14.5372	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBG0634V)			+/-	150.8570	µg/mL	Unstressed
	Purity 98%				+/-	151.2152	µg/mL	Stressed
30	1,2-Dichloropropane		2,503.0	µg/mL	+/-	14.5527	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot 01113D0V)			+/-	151.0171	µg/mL	Unstressed
	Purity 99%				+/-	151.3756	µg/mL	Stressed
31	1,4-Dioxane		50,011.4	µg/mL	+/-	290.7552	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBH2584V)			+/-	3,017.4064	µg/mL	Unstressed
	Purity 99%				+/-	3,024.5702	µg/mL	Stressed
32	Dibromomethane		2,501.9	µg/mL	+/-	14.5465	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10183283)			+/-	150.9531	µg/mL	Unstressed
	Purity 98%				+/-	151.3115	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot 22622)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
34	Toluene		2,504.3	µg/mL	+/-	14.5599	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBH1932V)			+/-	151.0925	µg/mL	Unstressed
	Purity 99%				+/-	151.4512	µg/mL	Stressed
35	Ethyl methacrylate		2,506.9	µg/mL	+/-	14.5752	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot SHBD9190V)			+/-	151.2509	µg/mL	Unstressed
	Purity 99%				+/-	151.6100	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,503.6	µg/mL	+/-	14.5563	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot C584177)			+/-	151.0548	µg/mL	Unstressed
	Purity 99%				+/-	151.4134	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
38	1,3-Dichloropropane		2,503.5	µg/mL	+/-	14.5556	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBG2162V)			+/-	151.0472	µg/mL	Unstressed
	Purity 99%				+/-	151.4059	µg/mL	Stressed
39	Tetrachloroethene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBD9374V)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed

40	dibromochloromethane		2,500.2	µg/mL	+/-	14.5365	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKBW3597V)			+/-	150.8497	µg/mL	Unstressed
	Purity 98%				+/-	151.2078	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBH3877V)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed
42	Chlorobenzene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBF0505V)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
43	m-Xylene		1,250.3	µg/mL	+/-	7.2691	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBG4347V)			+/-	75.4331	µg/mL	Unstressed
	Purity 99%				+/-	75.6122	µg/mL	Stressed
44	p-Xylene		1,251.3	µg/mL	+/-	7.2749	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBG3928V)			+/-	75.4935	µg/mL	Unstressed
	Purity 99%				+/-	75.6727	µg/mL	Stressed
45	Ethylbenzene		2,503.3	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBG5920V)			+/-	151.0322	µg/mL	Unstressed
	Purity 99%				+/-	151.3907	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot MKBS3769V)			+/-	150.8512	µg/mL	Unstressed
	Purity 99%				+/-	151.2093	µg/mL	Stressed
47	o-Xylene		2,504.9	µg/mL	+/-	14.5636	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBH3432V)			+/-	151.1302	µg/mL	Unstressed
	Purity 99%				+/-	151.4890	µg/mL	Stressed
48	Styrene		2,506.3	µg/mL	+/-	14.5716	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKBS7097V)			+/-	151.2132	µg/mL	Unstressed
	Purity 99%				+/-	151.5722	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot 10185056)			+/-	150.9341	µg/mL	Unstressed
	Purity 99%				+/-	151.2925	µg/mL	Stressed
50	bromoform		2,502.9	µg/mL	+/-	14.5519	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBD8459V)			+/-	151.0095	µg/mL	Unstressed
	Purity 99%				+/-	151.3681	µg/mL	Stressed
51	bromodichloromethane		2,506.8	µg/mL	+/-	14.5750	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKBW5506V)			+/-	151.2490	µg/mL	Unstressed
	Purity 97%				+/-	151.6081	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,508.5	µg/mL	+/-	14.5846	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	151.3489	µg/mL	Unstressed
	Purity 99%				+/-	151.7082	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot MKBP6041V)			+/-	150.8817	µg/mL	Unstressed
	Purity 95%				+/-	151.2399	µg/mL	Stressed
55	n-Propylbenzene		2,501.9	µg/mL	+/-	14.5461	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKBJ0332V)			+/-	150.9492	µg/mL	Unstressed
	Purity 99%				+/-	151.3076	µg/mL	Stressed

56	Bromobenzene		2,507.0	µg/mL	+/-	14.5759	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot MKBD4032V)			+/-	151.2584	µg/mL	Unstressed
	Purity 99%				+/-	151.6175	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCBQ2165V)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
58	2-Chlorotoluene		2,500.6	µg/mL	+/-	14.5388	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKBW5554V)			+/-	150.8738	µg/mL	Unstressed
	Purity 99%				+/-	151.2320	µg/mL	Stressed
59	4-Chlorotoluene		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKBL7753V)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed
60	tert-Butylbenzene		2,507.0	µg/mL	+/-	14.5759	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot S52237V)			+/-	151.2584	µg/mL	Unstressed
	Purity 99%				+/-	151.6175	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,500.8	µg/mL	+/-	14.5401	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot MKBJ6229V)			+/-	150.8866	µg/mL	Unstressed
	Purity 98%				+/-	151.2448	µg/mL	Stressed
62	sec-Butylbenzene		2,505.4	µg/mL	+/-	14.5665	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKBR9260V)			+/-	151.1604	µg/mL	Unstressed
	Purity 99%				+/-	151.5193	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene)		2,503.8	µg/mL	+/-	14.5570	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKBS2604V)			+/-	151.0623	µg/mL	Unstressed
	Purity 99%				+/-	151.4210	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,503.9	µg/mL	+/-	14.5577	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBM5751V)			+/-	151.0699	µg/mL	Unstressed
	Purity 99%				+/-	151.4285	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,509.9	µg/mL	+/-	14.5926	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS1350V)			+/-	151.4319	µg/mL	Unstressed
	Purity 99%				+/-	151.7914	µg/mL	Stressed
66	n-Butylbenzene		2,503.3	µg/mL	+/-	14.5541	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09418JJV)			+/-	151.0322	µg/mL	Unstressed
	Purity 99%				+/-	151.3907	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,503.8	µg/mL	+/-	14.5570	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBD7331V)			+/-	151.0623	µg/mL	Unstressed
	Purity 99%				+/-	151.4210	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,505.0	µg/mL	+/-	14.5643	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	151.1378	µg/mL	Unstressed
	Purity 99%				+/-	151.4966	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,505.3	µg/mL	+/-	14.5657	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBC5541V)			+/-	151.1528	µg/mL	Unstressed
	Purity 99%				+/-	151.5117	µg/mL	Stressed
70	Hexachlorobutadiene		2,506.5	µg/mL	+/-	14.5728	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot J31X013)			+/-	151.2266	µg/mL	Unstressed
	Purity 98%				+/-	151.5856	µg/mL	Stressed
71	Naphthalene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBW2603V)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,511.1	µg/mL	+/-	14.5999	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot 12912PFV)			+/-	151.5073	µg/mL	Unstressed
	Purity 99%				+/-	151.8670	µg/mL	Stressed

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

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

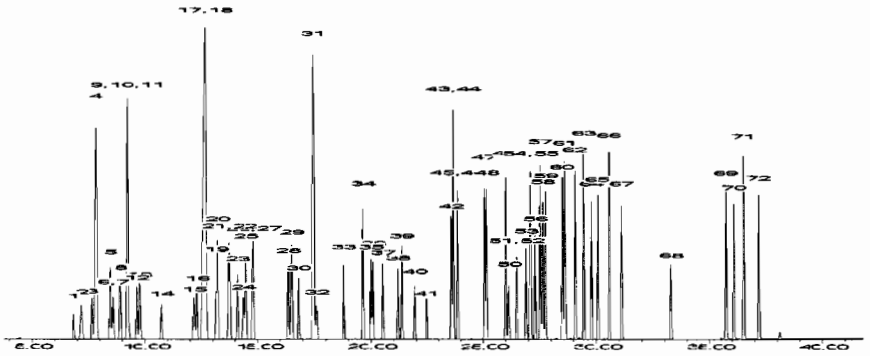
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

F. Joseph Tallon - Mfg Technician **Date Mixed:** 22-Dec-2016 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 04-Jan-2017

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

Reagent

8260MegaMixSS_00063

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 571992.sec **Lot No.:** A0123775

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1250-62500 µg/ml, P&T Methanol, 1 ml/ampul

REC'D 2-22-18
JOH

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

Expiration Date : December 31, 2018 **Storage:** 0°C or colder

1391290-291

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether)	2,501.2 µg/mL	+/- 14.5422 µg/mL	Gravimetric
	CAS # 60-29-7.SEC (Lot F23X068)		+/- 150.9088 µg/mL	Unstressed
	Purity 98%		+/- 151.2671 µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	2,501.1 µg/mL	+/- 14.5418 µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 150.9040 µg/mL	Unstressed
	Purity 99%		+/- 151.2622 µg/mL	Stressed
3	1,1-Dichloroethene	2,500.5 µg/mL	+/- 14.5381 µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 2767000)		+/- 150.8662 µg/mL	Unstressed
	Purity 99%		+/- 151.2244 µg/mL	Stressed
4	tert-Butanol (TBA)	25,003.1 µg/mL	+/- 145.3626 µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot XYXDO)		+/- 1,508.5475 µg/mL	Unstressed
	Purity 98%		+/- 1,512.1291 µg/mL	Stressed
5	Methyl acetate	5,000.4 µg/mL	+/- 29.0726 µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot YDGVD)		+/- 301.6948 µg/mL	Unstressed
	Purity 99%		+/- 302.4111 µg/mL	Stressed
6	Iodomethane (methyl iodide)	2,500.4 µg/mL	+/- 14.5374 µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 150.8587 µg/mL	Unstressed
	Purity 99%		+/- 151.2169 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	2,500.1 µg/mL	+/- 14.5358 µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot VEBOC)		+/- 150.8423 µg/mL	Unstressed
	Purity 98%		+/- 151.2004 µg/mL	Stressed

8	Methylene chloride (dichloromethane)		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 75-09-2.SEC	(Lot FGM02)			+/-	150.8813	µg/mL	Unstressed
	Purity 99%				+/-	151.2395	µg/mL	Stressed
9	Carbon disulfide		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
10	Acrylonitrile		25,000.9	µg/mL	+/-	145.3496	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot UERIL)			+/-	1,508.4128	µg/mL	Unstressed
	Purity 99%				+/-	1,511.9941	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZAQTA-MS)			+/-	150.8361	µg/mL	Unstressed
	Purity 99%				+/-	151.1942	µg/mL	Stressed
12	cis-1,2-Dichloroethene		2,500.7	µg/mL	+/-	14.5394	µg/mL	Gravimetric
	CAS # 156-59-2.SEC	(Lot HGC01-BLKT)			+/-	150.8792	µg/mL	Unstressed
	Purity 98%				+/-	151.2374	µg/mL	Stressed
13	n-Hexane (C6)		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
14	1,1-Dichloroethane		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 75-34-3.SEC	(Lot 5379000)			+/-	150.8512	µg/mL	Unstressed
	Purity 99%				+/-	151.2093	µg/mL	Stressed
15	2,2-Dichloropropane		2,500.1	µg/mL	+/-	14.5358	µg/mL	Gravimetric
	CAS # 594-20-7.SEC	(Lot I7E8E)			+/-	150.8423	µg/mL	Unstressed
	Purity 98%				+/-	151.2004	µg/mL	Stressed
16	trans-1,2-Dichloroethene		2,500.2	µg/mL	+/-	14.5362	µg/mL	Gravimetric
	CAS # 156-60-5.SEC	(Lot TS5UB)			+/-	150.8466	µg/mL	Unstressed
	Purity 97%				+/-	151.2048	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,506.9	µg/mL	+/-	363.4014	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot 83NHH)			+/-	3,771.3149	µg/mL	Unstressed
	Purity 99%				+/-	3,780.2687	µg/mL	Stressed
18	Chloroform		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 67-66-3.SEC	(Lot 1297547)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
19	Bromochloromethane		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 5670200)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
20	Tetrahydrofuran		5,002.3	µg/mL	+/-	29.0835	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot K3V7J-SJ)			+/-	301.8079	µg/mL	Unstressed
	Purity 99%				+/-	302.5245	µg/mL	Stressed
21	1,1,1-Trichloroethane		2,500.7	µg/mL	+/-	14.5394	µg/mL	Gravimetric
	CAS # 71-55-6.SEC	(Lot CS160712)			+/-	150.8792	µg/mL	Unstressed
	Purity 98%				+/-	151.2374	µg/mL	Stressed
22	Cyclohexane		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
23	1,1-Dichloropropene		2,501.3	µg/mL	+/-	14.5427	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 5221100)			+/-	150.9133	µg/mL	Unstressed
	Purity 96%				+/-	151.2716	µg/mL	Stressed

24	Carbon tetrachloride		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
25	n-Heptane (C7)		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot OGM01)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
26	1,2-Dichloroethane		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot FO6PK)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
27	Benzene		2,501.5	µg/mL	+/-	14.5439	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	150.9266	µg/mL	Unstressed
	Purity 99%				+/-	151.2849	µg/mL	Stressed
28	Trichloroethene		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
29	Methylcyclohexane		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot 24MSD-CD)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
30	1,2-Dichloropropane		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot OGG01)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
31	1,4-Dioxane		50,007.1	µg/mL	+/-	290.7305	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot MUFZH)			+/-	3,017.1500	µg/mL	Unstressed
	Purity 99%				+/-	3,024.3132	µg/mL	Stressed
32	Dibromomethane		2,501.6	µg/mL	+/-	14.5447	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot FGI01-OICH)			+/-	150.9341	µg/mL	Unstressed
	Purity 99%				+/-	151.2925	µg/mL	Stressed
33	cis-1,3-Dichloropropene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
34	Toluene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	150.8361	µg/mL	Unstressed
	Purity 99%				+/-	151.1942	µg/mL	Stressed
35	Ethyl methacrylate		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
36	trans-1,3-Dichloropropene		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
37	1,1,2-Trichloroethane		2,500.8	µg/mL	+/-	14.5401	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 5034600)			+/-	150.8866	µg/mL	Unstressed
	Purity 98%				+/-	151.2448	µg/mL	Stressed
38	1,3-Dichloropropane		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
39	Tetrachloroethene		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed

40	Dibromochloromethane		2,500.4	µg/mL	+/-	14.5376	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10181507)			+/-	150.8613	µg/mL	Unstressed
	Purity 97%				+/-	151.2194	µg/mL	Stressed
41	1,2-Dibromoethane (EDB)		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 3505900)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
42	Chlorobenzene		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
43	m-Xylene		1,250.9	µg/mL	+/-	7.2727	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)			+/-	75.4708	µg/mL	Unstressed
	Purity 99%				+/-	75.6500	µg/mL	Stressed
44	p-Xylene		1,250.5	µg/mL	+/-	7.2705	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)			+/-	75.4482	µg/mL	Unstressed
	Purity 99%				+/-	75.6273	µg/mL	Stressed
45	Ethylbenzene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
46	1,1,1,2-Tetrachloroethane		2,501.1	µg/mL	+/-	14.5418	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	150.9040	µg/mL	Unstressed
	Purity 99%				+/-	151.2622	µg/mL	Stressed
47	o-Xylene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01-KTPK)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
48	Styrene		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
49	Isopropylbenzene (cumene)		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot 2PHXG-IH)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
50	Bromoform		2,502.3	µg/mL	+/-	14.5483	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 5139000)			+/-	150.9718	µg/mL	Unstressed
	Purity 99%				+/-	151.3303	µg/mL	Stressed
51	Bromodichloromethane		2,500.1	µg/mL	+/-	14.5358	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	150.8423	µg/mL	Unstressed
	Purity 98%				+/-	151.2004	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed
53	1,2,3-Trichloropropane		2,500.1	µg/mL	+/-	14.5358	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot OGI01)			+/-	150.8423	µg/mL	Unstressed
	Purity 98%				+/-	151.2004	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene		2,501.0	µg/mL	+/-	14.5408	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)			+/-	150.8940	µg/mL	Unstressed
	Purity 98%				+/-	151.2522	µg/mL	Stressed
55	n-Propylbenzene		2,500.0	µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC-IT)			+/-	150.8361	µg/mL	Unstressed
	Purity 99%				+/-	151.1942	µg/mL	Stressed

56	Bromobenzene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 2FUHG-EM)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
57	1,3,5-Trimethylbenzene		2,500.3	µg/mL	+/-	14.5367	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	150.8512	µg/mL	Unstressed
	Purity 99%				+/-	151.2093	µg/mL	Stressed
58	2-Chlorotoluene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot SW8QG-AO)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
59	4-Chlorotoluene		2,500.5	µg/mL	+/-	14.5381	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot P4XHJ-AO)			+/-	150.8662	µg/mL	Unstressed
	Purity 99%				+/-	151.2244	µg/mL	Stressed
60	tert-Butylbenzene		2,500.1	µg/mL	+/-	14.5359	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot OGN01-CAI)			+/-	150.8436	µg/mL	Unstressed
	Purity 99%				+/-	151.2017	µg/mL	Stressed
61	1,2,4-Trimethylbenzene		2,500.4	µg/mL	+/-	14.5374	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot SC7LO-QA)			+/-	150.8587	µg/mL	Unstressed
	Purity 99%				+/-	151.2169	µg/mL	Stressed
62	sec-Butylbenzene		2,501.4	µg/mL	+/-	14.5432	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot OGN01-IMA)			+/-	150.9190	µg/mL	Unstressed
	Purity 99%				+/-	151.2773	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)		2,501.3	µg/mL	+/-	14.5425	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 5221800)			+/-	150.9115	µg/mL	Unstressed
	Purity 99%				+/-	151.2698	µg/mL	Stressed
64	1,3-Dichlorobenzene		2,500.9	µg/mL	+/-	14.5403	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	150.8889	µg/mL	Unstressed
	Purity 99%				+/-	151.2471	µg/mL	Stressed
65	1,4-Dichlorobenzene		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot 4Y5DC)			+/-	150.8813	µg/mL	Unstressed
	Purity 99%				+/-	151.2395	µg/mL	Stressed
66	n-Butylbenzene		2,500.8	µg/mL	+/-	14.5396	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot OGN01-PNP)			+/-	150.8813	µg/mL	Unstressed
	Purity 99%				+/-	151.2395	µg/mL	Stressed
67	1,2-Dichlorobenzene		2,501.0	µg/mL	+/-	14.5410	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	150.8964	µg/mL	Unstressed
	Purity 99%				+/-	151.2547	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane		2,501.5	µg/mL	+/-	14.5436	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot LC00408V)			+/-	150.9236	µg/mL	Unstressed
	Purity 98%				+/-	151.2819	µg/mL	Stressed
69	1,2,4-Trichlorobenzene		2,502.5	µg/mL	+/-	14.5498	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot 3LYYC)			+/-	150.9869	µg/mL	Unstressed
	Purity 99%				+/-	151.3454	µg/mL	Stressed
70	Hexachlorobutadiene		2,501.4	µg/mL	+/-	14.5433	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 5526800)			+/-	150.9198	µg/mL	Unstressed
	Purity 97%				+/-	151.2781	µg/mL	Stressed
71	Naphthalene		2,501.8	µg/mL	+/-	14.5454	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	150.9417	µg/mL	Unstressed
	Purity 99%				+/-	151.3000	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,500.7	µg/mL	+/-	14.5394	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	150.8792	µg/mL	Unstressed
	Purity 98%				+/-	151.2374	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)

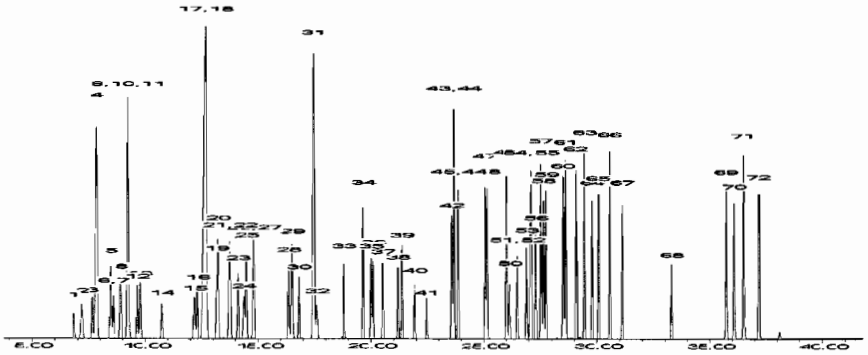
Carrier Gas:
helium-constant pressure 30 psi

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 Maye

Date Mixed: 28-Dec-2016 **Balance:** 1127510105

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 04-Jan-2017

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

Reagent

8260VinAcetat_00068

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3

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.:** A0131948

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

REC'D 1-12-18
JDH

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

Expiration Date : April 30, 2018 **Storage:** 0°C or colder

1372050 -052

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate	5,022.0 µg/mL	+/- 29.4049 µg/mL	Gravimetric
	CAS # 108-05-4 (Lot STBD7333V)		+/- 303.0195 µg/mL	Unstressed
	Purity 99%		+/- 303.7388 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)

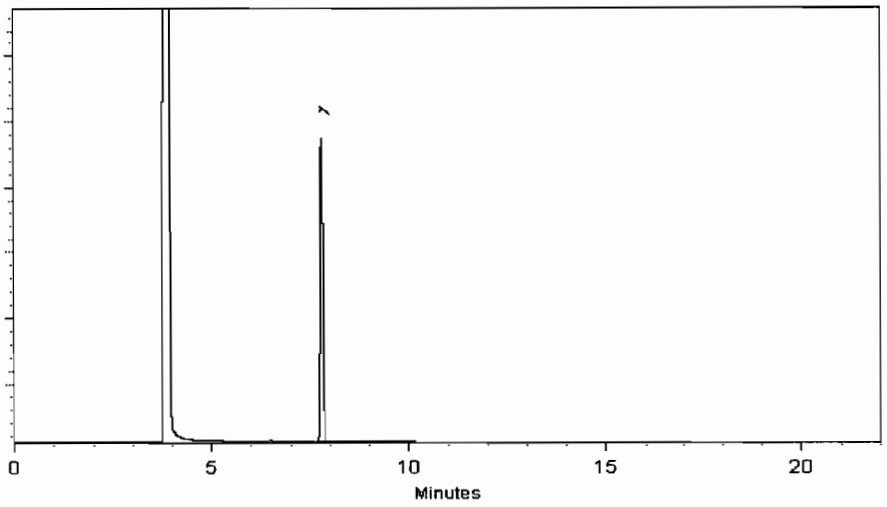
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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 - Mix Technician **Date Mixed:** 30-Oct-2017 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 01-Nov-2017

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

Reagent

Acrolein_00059

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 568720 **Lot No.:** A0132611

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

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

Expiration Date : May 31, 2018 **Storage:** 0°C or colder

Handling: This product is photosensitive.

REC'D 2-20-18
JDH
1399318-319

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acrolein	19,768.0 µg/mL	+/- 115.7460 µg/mL	Gravimetric
	CAS # 107-02-8 (Lot 170622JLM)		+/- 633.8242 µg/mL	Unstressed
	Purity 99%		+/- 736.7513 µg/mL	Stressed

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

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

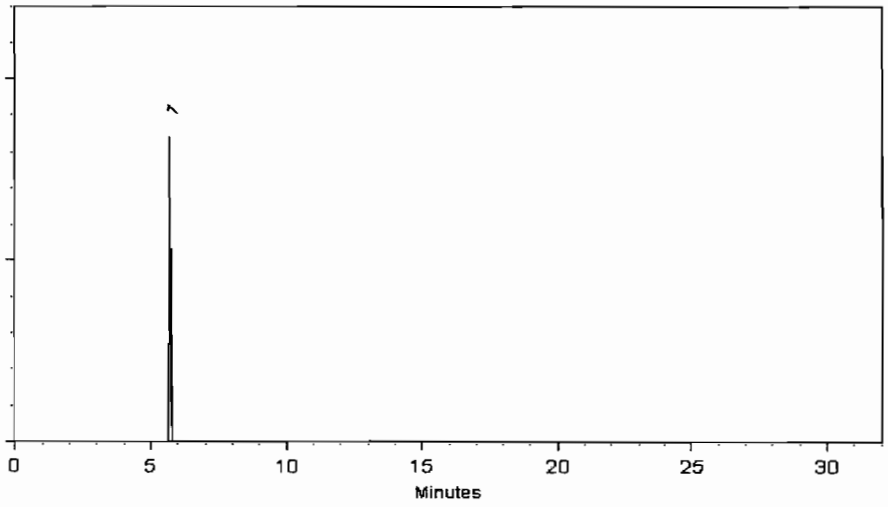
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Joseph/Jaglowski - Mix Technician **Date Mixed:** 21-Nov-2017 **Balance:** B251644995

Jennifer Pollino - Operations Tech-ARM QC **Date Passed:** 22-Nov-2017

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

Reagent

Adds(A) 2016_00026

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 570808 **Lot No.:** A0132816

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

REC'D 1-9-18 JDH

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

Expiration Date : May 31, 2019 **Storage:** 0°C or colder

1356781-783

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol)	25,038.4 µg/mL	+/- 146.6053 µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBG8138V)		+/- 1,238.7172 µg/mL	Unstressed
	Purity 99%		+/- 1,269.5131 µg/mL	Stressed
2	Chloroprene (2-chloro-1,3-butadiene)	2,522.0 µg/mL	+/- 14.8005 µg/mL	Gravimetric
	CAS # 126-99-8 (Lot 170628JLM)		+/- 124.7741 µg/mL	Unstressed
	Purity 99%		+/- 127.8760 µg/mL	Stressed
3	Methacrylonitrile	25,034.4 µg/mL	+/- 146.5819 µg/mL	Gravimetric
	CAS # 126-98-7 (Lot 1012014)		+/- 1,238.5193 µg/mL	Unstressed
	Purity 99%		+/- 1,269.3102 µg/mL	Stressed
4	2,2,4-Trimethylpentane (isooctane)	2,512.8 µg/mL	+/- 14.7465 µg/mL	Gravimetric
	CAS # 540-84-1 (Lot SHBF8066V)		+/- 124.3190 µg/mL	Unstressed
	Purity 99%		+/- 127.4095 µg/mL	Stressed
5	1-Butanol	62,503.6 µg/mL	+/- 365.9535 µg/mL	Gravimetric
	CAS # 71-36-3 (Lot SHBH5137V)		+/- 3,092.2204 µg/mL	Unstressed
	Purity 98%		+/- 3,169.0963 µg/mL	Stressed
6	2-Nitropropane	5,015.6 µg/mL	+/- 29.3677 µg/mL	Gravimetric
	CAS # 79-46-9 (Lot BCBL0537V)		+/- 248.1373 µg/mL	Unstressed
	Purity 98%		+/- 254.3062 µg/mL	Stressed
7	1-Chlorohexane	2,502.5 µg/mL	+/- 14.6862 µg/mL	Gravimetric
	CAS # 544-10-5 (Lot 05107LK)		+/- 123.8108 µg/mL	Unstressed
	Purity 98%		+/- 126.8886 µg/mL	Stressed

8	1,2,3-Trimethylbenzene		2,505.7 µg/mL	+/-	14.7049	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 877605-14)		+/-	123.9679	µg/mL	Unstressed
	Purity 97%			+/-	127.0497	µg/mL	Stressed
9	Benzyl chloride		2,507.2 µg/mL	+/-	14.7137	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBB7346V)		+/-	124.0419	µg/mL	Unstressed
	Purity 99%			+/-	127.1255	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,502.4 µg/mL	+/-	14.6855	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)		+/-	123.8044	µg/mL	Unstressed
	Purity 99%			+/-	126.8822	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)

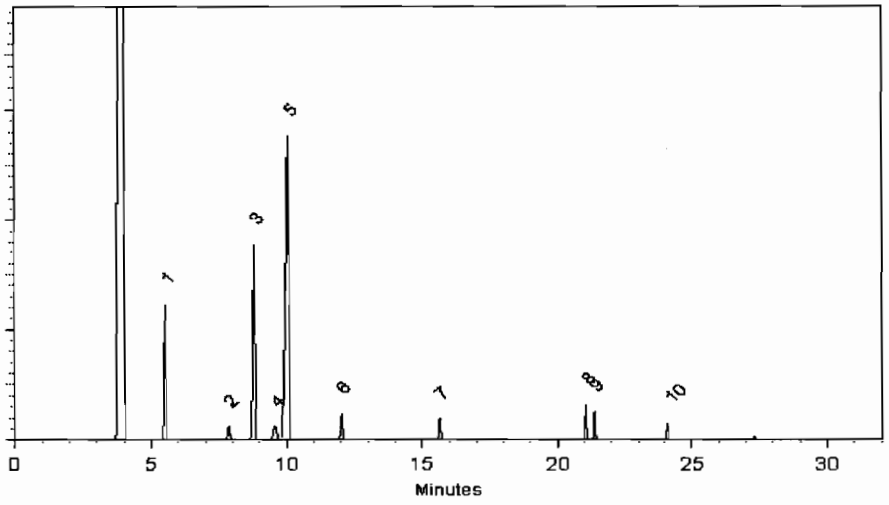
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cydnei L. Crust - Mix Technician

Date Mixed: 29-Nov-2017 **Balance:** B707717271

Amanda Miller - Operations Tech-ARM QC

Date Passed: 01-Dec-2017

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

Reagent

Adds(B) 2016_00026

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Certificate #3222.02

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.:** A0131668

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : April 30, 2019 **Storage:** 0°C or colder

REC'D 1-9-18
JDH
1356787-789

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Ethyl acetate		5,019.0	µg/mL	+/- 29.3873	µg/mL	Gravimetric
	CAS # 141-78-6	(Lot SHBG6401V)			+/- 302.8385	µg/mL	Unstressed
	Purity 99%				+/- 303.5574	µg/mL	Stressed
2	Ethyl acrylate		2,521.0	µg/mL	+/- 14.7946	µg/mL	Gravimetric
	CAS # 140-88-5	(Lot 10129902)			+/- 152.1164	µg/mL	Unstressed
	Purity 99%				+/- 152.4775	µg/mL	Stressed
3	Methyl methacrylate		5,027.5	µg/mL	+/- 29.4371	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKBV3172V)			+/- 303.3514	µg/mL	Unstressed
	Purity 99%				+/- 304.0715	µg/mL	Stressed
4	Butyl acetate		2,512.0	µg/mL	+/- 14.7418	µg/mL	Gravimetric
	CAS # 123-86-4	(Lot SHBH0056V)			+/- 151.5733	µg/mL	Unstressed
	Purity 99%				+/- 151.9331	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)

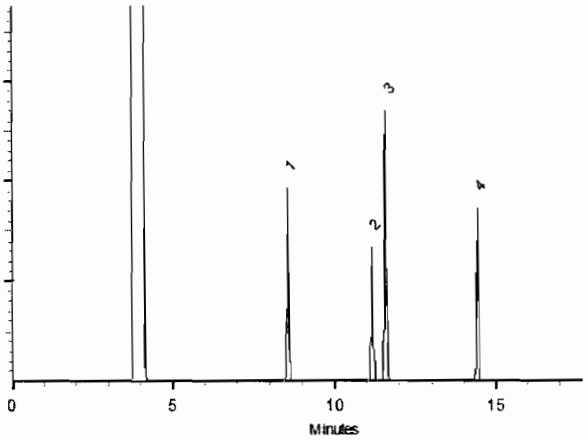
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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 Brownson - Mix Technician

Date Mixed: 16-Oct-2017 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 20-Oct-2017

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

Reagent

BFB_00081

125 Market Street
New Haven, CT 06513
USA

AccuStandard®, Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

REC'D 12-12-17
JDH

Catalog No: CLP-004
Description: p-Bromofluorobenzene
Lot: 216071230
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Date Certified: Jul 20, 2016
Expiration: Jul 20, 2026
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes
Included on ISO Guide 34 Scope of Accreditation: Yes



Signal Word: Danger

1343782-786

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
p-Bromofluorobenzene	460-00-4	100.0	25.01	25.01

A product with a 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

For use in routine laboratory analysis.

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 9001:2015 - 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. This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

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 ±5%, the U_{CRM} for inorganic products is ±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

Ethanol P_00014

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 571994 **Lot No.:** A0132270

Description : 8260 Ethanol Standard

8260 Ethanol Standard 100,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : November 30, 2020 **Storage:** 0°C or colder

REC'D 12-28-17
JDH
1354213-214

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethanol	100,817.3 µg/mL	+/- 590.2772 µg/mL	Gravimetric
	CAS # 64-17-5 (Lot SHBJ0994)		+/- 2,159.6326 µg/mL	Unstressed
	Purity 99%		+/- 2,222.3526 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)

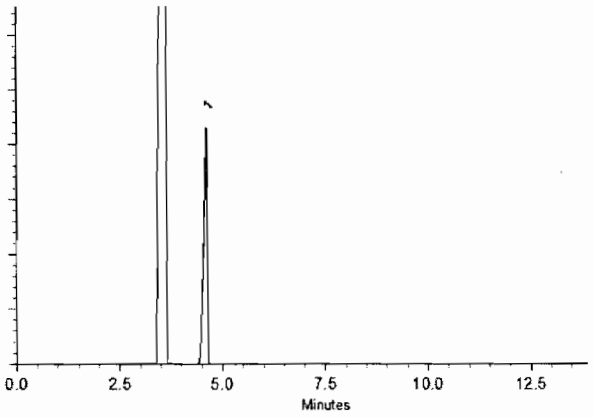
Carrier Gas:
hydrogen-constant pressure 11 psi.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Tom Suckar - Mix Technician

Date Mixed: 08-Nov-2017 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 10-Nov-2017

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

Reagent

Polar Add._00056

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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. : 571993 **Lot No.:** A0123796

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2500-25,000 µg/ml, 1 ml/ampul

REC'D 2-22-18

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

Expiration Date : December 31, 2018 **Storage:** 0°C or colder

1391317-318

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetonitrile	25,004.5 µg/mL	+/- 145.3705 µg/mL	Gravimetric
	CAS # 75-05-8 (Lot SHBB3177V)		+/- 1,236.9157 µg/mL	Unstressed
	Purity 98%		+/- 1,267.6727 µg/mL	Stressed
2	Diisopropyl ether (DIPE)	2,505.0 µg/mL	+/- 14.5643 µg/mL	Gravimetric
	CAS # 108-20-3 (Lot SHBC0391V)		+/- 123.9170 µg/mL	Unstressed
	Purity 99%		+/- 126.9983 µg/mL	Stressed
3	Ethyl-tert-butyl ether (ETBE)	2,501.5 µg/mL	+/- 14.5439 µg/mL	Gravimetric
	CAS # 637-92-3 (Lot MKBT8400V)		+/- 123.7438 µg/mL	Unstressed
	Purity 99%		+/- 126.8208 µg/mL	Stressed
4	Propionitrile	25,003.8 µg/mL	+/- 145.3664 µg/mL	Gravimetric
	CAS # 107-12-0 (Lot BCBM6569V)		+/- 1,236.8808 µg/mL	Unstressed
	Purity 99%		+/- 1,267.6370 µg/mL	Stressed
5	tert-Amyl alcohol	25,006.0 µg/mL	+/- 145.3794 µg/mL	Gravimetric
	CAS # 75-85-4 (Lot STBB1898V)		+/- 1,236.9921 µg/mL	Unstressed
	Purity 99%		+/- 1,267.7510 µg/mL	Stressed
6	tert-Amyl methyl ether (TAME)	2,505.4 µg/mL	+/- 14.5664 µg/mL	Gravimetric
	CAS # 994-05-8 (Lot HMBD8698V)		+/- 123.9353 µg/mL	Unstressed
	Purity 98%		+/- 127.0170 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)

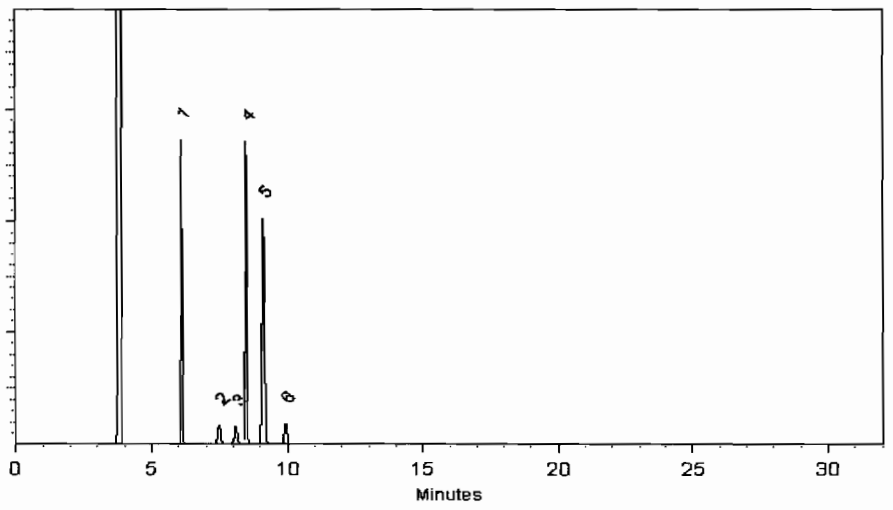
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Cathleen Soltis - Mix Technician

Date Mixed: 28-Dec-2016 **Balance:** 1125113331

Amanda Miller - Operations Tech-ARM QC

Date Passed: 30-Dec-2016

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.: 280-107941-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTXVMS30 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
6MW2007	280-107941-1	106	108	101	104
6MW2007D	280-107941-2	102	105	99	103
6MW2207	280-107941-3	99	102	95	95
6MW2307	280-107941-4	105	107	100	103
6MW2407	280-107941-5	107	111	102	102
6MW2507	280-107941-6	102	105	99	96
6MW2607	280-107941-7	99	104	96	98
TB08	280-107941-8	99	98	98	98
FB04	280-107941-9	100	99	100	100
	MB 160-358977/7	104	105	99	100
	LCS 160-358977/4	101	97	100	100
	LCSD 160-358977/5	102	97	101	104
6MW2007MS MS	280-107941-1 MS	101	102	95	99
6MW2007MSD MSD	280-107941-1 MSD	98	99	95	99

	QC LIMITS
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.: 280-107941-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS1632.D

Lab ID: LCS 160-358977/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	49.8	100	78-124	
1,1,1-Trichloroethane	50.0	49.9	100	74-131	
1,1,2,2-Tetrachloroethane	50.0	47.3	95	71-121	
1,1,2-Trichloroethane	50.0	49.7	99	80-119	
1,1-Dichloroethane	50.0	49.0	98	77-125	
1,1-Dichloroethene	50.0	50.8	102	71-131	
1,1-Dichloropropene	50.0	49.9	100	79-125	
1,2,3-Trichlorobenzene	50.0	53.9	108	69-129	
1,2,3-Trichloropropane	50.0	48.0	96	73-122	
1,2,4-Trimethylbenzene	50.0	49.2	98	76-124	
1,2-Dibromo-3-Chloropropane	50.0	50.8	102	62-128	
1,2-Dibromoethane	50.0	50.2	100	80-120	
1,2-Dichloroethane	50.0	47.1	94	73-128	
1,2-Dichloropropane	50.0	50.4	101	78-122	
1,3,5-Trimethylbenzene	50.0	48.9	98	75-124	
1,3-Dichloropropane	50.0	48.9	98	80-119	
2,2-Dichloropropane	50.0	51.0	102	60-139	
2-Butanone (MEK)	50.0	49.1	98	56-143	
2-Chlorotoluene	50.0	49.2	98	79-122	
2-Hexanone	50.0	52.2	104	57-139	
4-Chlorotoluene	50.0	49.5	99	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	51.4	103	67-130	
Acetone	50.0	49.9	100	39-160	
Benzene	50.0	47.9	96	79-120	
Bromobenzene	50.0	49.0	98	80-120	
Bromochloromethane	50.0	49.8	100	78-123	
Bromodichloromethane	50.0	50.4	101	79-125	
Bromoform	50.0	50.7	101	66-130	
Bromomethane	50.0	47.4	95	53-141	
Carbon disulfide	50.0	51.3	103	64-133	
Carbon tetrachloride	50.0	50.1	100	72-136	
Chlorobenzene	50.0	49.1	98	82-118	
Chloroethane	50.0	45.0	90	60-138	
Chloroform	50.0	48.5	97	79-124	
Chloromethane	50.0	48.8	98	50-139	
cis-1,2-Dichloroethene	50.0	49.4	99	78-123	
cis-1,3-Dichloropropene	50.0	52.2	104	75-124	
Dibromochloromethane	50.0	51.5	103	74-126	
Dibromomethane	50.0	50.1	100	79-123	
Dichlorodifluoromethane	50.0	52.5	105	32-152	
Ethylbenzene	50.0	46.7	93	79-121	
Isopropylbenzene	50.0	50.5	101	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS1632.D

Lab ID: LCS 160-358977/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m,p-Xylenes	50.0	49.1	98	80-121	
Methyl tert-butyl ether	50.0	51.4	103	71-124	
Methylene Chloride	50.0	50.1	100	74-124	
Naphthalene	50.0	53.5	107	61-128	
n-Butylbenzene	50.0	49.4	99	75-128	
N-Propylbenzene	50.0	49.9	100	76-126	
o-Xylene	50.0	49.3	99	78-122	
p-Isopropyltoluene	50.0	49.8	100	77-127	
sec-Butylbenzene	50.0	48.7	97	77-126	
Styrene	50.0	51.5	103	78-123	
tert-Butylbenzene	50.0	48.8	98	78-124	
Tetrachloroethene	50.0	49.7	99	74-129	
Toluene	50.0	49.3	99	80-121	
trans-1,2-Dichloroethene	50.0	49.3	99	75-124	
trans-1,3-Dichloropropene	50.0	52.8	106	73-127	
Trichloroethene	50.0	48.1	96	79-123	
Trichlorofluoromethane	50.0	47.0	94	65-141	
Vinyl chloride	50.0	45.3	91	58-137	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS1633.D

Lab ID: LCSD 160-358977/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	48.7	97	2	20	78-124	
1,1,1-Trichloroethane	50.0	49.4	99	1	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	46.7	93	1	20	71-121	
1,1,2-Trichloroethane	50.0	50.0	100	0	20	80-119	
1,1-Dichloroethane	50.0	48.5	97	1	20	77-125	
1,1-Dichloroethene	50.0	49.9	100	2	20	71-131	
1,1-Dichloropropene	50.0	49.1	98	2	20	79-125	
1,2,3-Trichlorobenzene	50.0	54.6	109	1	20	69-129	
1,2,3-Trichloropropane	50.0	47.8	96	0	20	73-122	
1,2,4-Trimethylbenzene	50.0	49.2	98	0	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	51.6	103	2	20	62-128	
1,2-Dibromoethane	50.0	50.8	102	1	20	80-120	
1,2-Dichloroethane	50.0	46.8	94	1	20	73-128	
1,2-Dichloropropane	50.0	49.9	100	1	20	78-122	
1,3,5-Trimethylbenzene	50.0	49.5	99	1	20	75-124	
1,3-Dichloropropane	50.0	48.9	98	0	20	80-119	
2,2-Dichloropropane	50.0	50.0	100	2	20	60-139	
2-Butanone (MEK)	50.0	48.9	98	0	20	56-143	
2-Chlorotoluene	50.0	49.8	100	1	20	79-122	
2-Hexanone	50.0	50.1	100	4	20	57-139	
4-Chlorotoluene	50.0	49.9	100	1	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	50.2	100	2	20	67-130	
Acetone	50.0	47.9	96	4	20	39-160	
Benzene	50.0	47.5	95	1	20	79-120	
Bromobenzene	50.0	49.5	99	1	20	80-120	
Bromochloromethane	50.0	50.5	101	1	20	78-123	
Bromodichloromethane	50.0	49.8	100	1	20	79-125	
Bromoform	50.0	51.4	103	1	20	66-130	
Bromomethane	50.0	47.8	96	1	20	53-141	
Carbon disulfide	50.0	50.4	101	2	20	64-133	
Carbon tetrachloride	50.0	49.7	99	1	20	72-136	
Chlorobenzene	50.0	48.9	98	0	20	82-118	
Chloroethane	50.0	46.9	94	4	20	60-138	
Chloroform	50.0	47.6	95	2	20	79-124	
Chloromethane	50.0	47.2	94	3	20	50-139	
cis-1,2-Dichloroethene	50.0	48.3	97	2	20	78-123	
cis-1,3-Dichloropropene	50.0	51.8	104	1	20	75-124	
Dibromochloromethane	50.0	51.1	102	1	20	74-126	
Dibromomethane	50.0	49.2	98	2	20	79-123	
Dichlorodifluoromethane	50.0	51.2	102	3	20	32-152	
Ethylbenzene	50.0	46.7	93	0	20	79-121	
Isopropylbenzene	50.0	51.3	103	2	20	72-131	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XLCS1633.D

Lab ID: LCSD 160-358977/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m,p-Xylenes	50.0	49.1	98	0	20	80-121	
Methyl tert-butyl ether	50.0	50.1	100	2	20	71-124	
Methylene Chloride	50.0	49.0	98	2	20	74-124	
Naphthalene	50.0	52.8	106	1	20	61-128	
n-Butylbenzene	50.0	49.9	100	1	20	75-128	
N-Propylbenzene	50.0	50.5	101	1	20	76-126	
o-Xylene	50.0	48.5	97	2	20	78-122	
p-Isopropyltoluene	50.0	50.1	100	1	20	77-127	
sec-Butylbenzene	50.0	49.3	99	1	20	77-126	
Styrene	50.0	49.8	100	3	20	78-123	
tert-Butylbenzene	50.0	49.6	99	2	20	78-124	
Tetrachloroethene	50.0	49.2	98	1	20	74-129	
Toluene	50.0	49.3	99	0	20	80-121	
trans-1,2-Dichloroethene	50.0	49.2	98	0	20	75-124	
trans-1,3-Dichloropropene	50.0	52.0	104	1	20	73-127	
Trichloroethene	50.0	47.3	95	2	20	79-123	
Trichlorofluoromethane	50.0	46.7	93	1	20	65-141	
Vinyl chloride	50.0	46.1	92	2	20	58-137	

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.: 280-107941-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP1639.D

Lab ID: 280-107941-1 MS Client ID: 6MW2007MS 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	51.3	103	78-124	
1,1,1-Trichloroethane	50.0	1.0 U	51.8	104	74-131	
1,1,2,2-Tetrachloroethane	50.0	2.0 U	48.0	96	71-121	
1,1,2-Trichloroethane	50.0	1.0 U	50.5	101	80-119	
1,1-Dichloroethane	50.0	1.0 U	50.9	102	77-125	
1,1-Dichloroethene	50.0	1.0 U	50.8	102	71-131	
1,1-Dichloropropene	50.0	1.0 U	51.5	103	79-125	
1,2,3-Trichlorobenzene	50.0	2.0 U	53.1	106	69-129	
1,2,3-Trichloropropane	50.0	1.0 U	48.3	97	73-122	
1,2,4-Trimethylbenzene	50.0	2.0 U	50.6	101	76-124	
1,2-Dibromo-3-Chloropropane	50.0	2.0 U	47.1	94	62-128	
1,2-Dibromoethane	50.0	2.0 U	51.3	103	80-120	
1,2-Dichloroethane	50.0	1.0 U	50.1	100	73-128	
1,2-Dichloropropane	50.0	1.0 U	52.9	106	78-122	
1,3,5-Trimethylbenzene	50.0	2.0 U	50.3	101	75-124	
1,3-Dichloropropane	50.0	1.0 U	50.2	100	80-119	
2,2-Dichloropropane	50.0	2.0 U	51.4	103	60-139	
2-Butanone (MEK)	50.0	5.0 U	52.0	104	56-143	
2-Chlorotoluene	50.0	2.0 U	50.1	100	79-122	
2-Hexanone	50.0	2.0 U	50.9	102	57-139	
4-Chlorotoluene	50.0	2.0 U	50.6	101	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	2.0 U	51.3	103	67-130	
Acetone	50.0	10 U	51.0	102	39-160	
Benzene	50.0	1.0 U	49.4	99	79-120	
Bromobenzene	50.0	2.0 U	49.5	99	80-120	
Bromochloromethane	50.0	2.0 U	53.0	106	78-123	
Bromodichloromethane	50.0	2.0 U	52.1	104	79-125	
Bromoform	50.0	1.0 U	50.7	101	66-130	
Bromomethane	50.0	2.0 U	48.3	97	53-141	
Carbon disulfide	50.0	1.0 U	52.1	104	64-133	
Carbon tetrachloride	50.0	1.0 U	51.5	103	72-136	
Chlorobenzene	50.0	1.0 U	50.9	102	82-118	
Chloroethane	50.0	1.0 U	46.6	93	60-138	
Chloroform	50.0	1.0 U	50.7	101	79-124	
Chloromethane	50.0	2.0 U	46.2	92	50-139	
cis-1,2-Dichloroethene	50.0	0.80 J	51.7	102	78-123	
cis-1,3-Dichloropropene	50.0	1.0 U	52.9	106	75-124	
Dibromochloromethane	50.0	1.0 U	52.7	105	74-126	
Dibromomethane	50.0	2.0 U	52.4	105	79-123	
Dichlorodifluoromethane	50.0	2.0 U	51.7	103	32-152	
Ethylbenzene	50.0	1.0 U	48.7	97	79-121	
Isopropylbenzene	50.0	2.0 U	51.2	102	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.: 280-107941-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP1639.D

Lab ID: 280-107941-1 MS Client ID: 6MW2007MS 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	50.4	101	80-121	
Methyl tert-butyl ether	50.0	2.0 U	50.7	101	71-124	
Methylene Chloride	50.0	5.0 U	51.3	103	74-124	
Naphthalene	50.0	2.0 U	51.8	104	61-128	
n-Butylbenzene	50.0	2.0 U	51.2	102	75-128	
N-Propylbenzene	50.0	2.0 U	50.7	101	76-126	
o-Xylene	50.0	1.0 U	50.1	100	78-122	
p-Isopropyltoluene	50.0	2.0 U	50.6	101	77-127	
sec-Butylbenzene	50.0	2.0 U	50.0	100	77-126	
Styrene	50.0	1.0 U	51.7	103	78-123	
tert-Butylbenzene	50.0	2.0 U	49.7	99	78-124	
Tetrachloroethene	50.0	1.0 U	49.6	99	74-129	
Toluene	50.0	1.0 U	50.1	100	80-121	
trans-1,2-Dichloroethene	50.0	1.0 U	50.5	101	75-124	
trans-1,3-Dichloropropene	50.0	1.0 U	52.8	106	73-127	
Trichloroethene	50.0	1.0 U	50.3	101	79-123	
Trichlorofluoromethane	50.0	2.0 U	49.0	98	65-141	
Vinyl chloride	50.0	1.0 U	45.7	91	58-137	

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.: 280-107941-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP1640.D

Lab ID: 280-107941-1 MSD Client ID: 6MW2007MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	49.3	99	4	20	78-124	
1,1,1-Trichloroethane	50.0	50.1	100	3	20	74-131	
1,1,2,2-Tetrachloroethane	50.0	47.0	94	2	20	71-121	
1,1,2-Trichloroethane	50.0	48.7	97	4	20	80-119	
1,1-Dichloroethane	50.0	49.7	99	2	20	77-125	
1,1-Dichloroethene	50.0	49.9	100	2	20	71-131	
1,1-Dichloropropene	50.0	50.5	101	2	20	79-125	
1,2,3-Trichlorobenzene	50.0	54.9	110	3	20	69-129	
1,2,3-Trichloropropane	50.0	46.5	93	4	20	73-122	
1,2,4-Trimethylbenzene	50.0	49.6	99	2	20	76-124	
1,2-Dibromo-3-Chloropropane	50.0	53.7	107	13	20	62-128	
1,2-Dibromoethane	50.0	49.4	99	4	20	80-120	
1,2-Dichloroethane	50.0	48.6	97	3	20	73-128	
1,2-Dichloropropane	50.0	50.6	101	4	20	78-122	
1,3,5-Trimethylbenzene	50.0	49.6	99	1	20	75-124	
1,3-Dichloropropane	50.0	47.5	95	6	20	80-119	
2,2-Dichloropropane	50.0	52.2	104	1	20	60-139	
2-Butanone (MEK)	50.0	49.0	98	6	20	56-143	
2-Chlorotoluene	50.0	48.9	98	2	20	79-122	
2-Hexanone	50.0	49.8	100	2	20	57-139	
4-Chlorotoluene	50.0	49.6	99	2	20	78-122	
4-Methyl-2-pentanone (MIBK)	50.0	49.1	98	4	20	67-130	
Acetone	50.0	47.5	95	7	20	39-160	
Benzene	50.0	48.4	97	2	20	79-120	
Bromobenzene	50.0	49.1	98	1	20	80-120	
Bromochloromethane	50.0	51.4	103	3	20	78-123	
Bromodichloromethane	50.0	50.8	102	2	20	79-125	
Bromoform	50.0	51.3	103	1	20	66-130	
Bromomethane	50.0	47.2	94	2	20	53-141	
Carbon disulfide	50.0	51.4	103	2	20	64-133	
Carbon tetrachloride	50.0	50.0	100	3	20	72-136	
Chlorobenzene	50.0	49.5	99	3	20	82-118	
Chloroethane	50.0	45.5	91	2	20	60-138	
Chloroform	50.0	49.4	99	3	20	79-124	
Chloromethane	50.0	46.1	92	0	20	50-139	
cis-1,2-Dichloroethene	50.0	50.6	100	2	20	78-123	
cis-1,3-Dichloropropene	50.0	51.6	103	3	20	75-124	
Dibromochloromethane	50.0	50.7	101	4	20	74-126	
Dibromomethane	50.0	50.9	102	3	20	79-123	
Dichlorodifluoromethane	50.0	51.6	103	0	20	32-152	
Ethylbenzene	50.0	46.8	94	4	20	79-121	
Isopropylbenzene	50.0	50.5	101	1	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.: 280-107941-1

SDG No.:

Matrix: Water Level: Low Lab File ID: XSMP1640.D

Lab ID: 280-107941-1 MSD Client ID: 6MW2007MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m,p-Xylenes	50.0	48.6	97	4	20	80-121	
Methyl tert-butyl ether	50.0	51.1	102	1	20	71-124	
Methylene Chloride	50.0	50.1	100	2	20	74-124	
Naphthalene	50.0	53.3	107	3	20	61-128	
n-Butylbenzene	50.0	49.4	99	4	20	75-128	
N-Propylbenzene	50.0	50.2	100	1	20	76-126	
o-Xylene	50.0	48.3	97	4	20	78-122	
p-Isopropyltoluene	50.0	49.4	99	2	20	77-127	
sec-Butylbenzene	50.0	49.1	98	2	20	77-126	
Styrene	50.0	50.4	101	3	20	78-123	
tert-Butylbenzene	50.0	49.1	98	1	20	78-124	
Tetrachloroethene	50.0	48.6	97	2	20	74-129	
Toluene	50.0	48.8	98	3	20	80-121	
trans-1,2-Dichloroethene	50.0	49.6	99	2	20	75-124	
trans-1,3-Dichloropropene	50.0	51.2	102	3	20	73-127	
Trichloroethene	50.0	48.8	98	3	20	79-123	
Trichlorofluoromethane	50.0	47.1	94	4	20	65-141	
Vinyl chloride	50.0	45.3	91	1	20	58-137	

Column to be used to flag recovery and RPD values

FORM III 8260C DOD

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Lab File ID: XBLK1635.D Lab Sample ID: MB 160-358977/7

Matrix: Water Heated Purge:(Y/N) Y

Instrument ID: VMSX Date Analyzed: 04/04/2018 16:51

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 160-358977/4	XLCS1632.D	04/04/2018 15:35
	LCSD 160-358977/5	XLCS1633.D	04/04/2018 16:01
TB08	280-107941-8	XSMP1636.D	04/04/2018 17:16
FB04	280-107941-9	XSMP1637.D	04/04/2018 17:41
6MW2007	280-107941-1	XSMP1638.D	04/04/2018 18:06
6MW2007MS MS	280-107941-1 MS	XSMP1639.D	04/04/2018 18:31
6MW2007MSD MSD	280-107941-1 MSD	XSMP1640.D	04/04/2018 18:56
6MW2007D	280-107941-2	XSMP1642.D	04/04/2018 19:46
6MW2207	280-107941-3	XSMP1643.D	04/04/2018 20:11
6MW2307	280-107941-4	XSMP1644.D	04/04/2018 20:36
6MW2407	280-107941-5	XSMP1645.D	04/04/2018 21:01
6MW2507	280-107941-6	XSMP1646.D	04/04/2018 21:26
6MW2607	280-107941-7	XSMP1647.D	04/04/2018 21:51

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

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Lab File ID: XBFB1616.D BFB Injection Date: 04/03/2018

Instrument ID: VMSX BFB Injection Time: 21:04

Analysis Batch No.: 358742

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.7	
75	30.0 - 60.0 % of mass 95	46.0	
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	71.0	
175	5.0 - 9.0 % of mass 174	5.3	(7.5) 1
176	95.0 - 101.0 % of mass 174	69.7	(98.2) 1
177	5.0 - 9.0 % of mass 176	4.6	(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 160-358742/3	XICL1618.D	04/03/2018	21:52
	IC 160-358742/4	XICL1619.D	04/03/2018	22:17
	IC 160-358742/5	XICL1620.D	04/03/2018	22:42
	IC 160-358742/6	XICL1621.D	04/03/2018	23:07
	IC 160-358742/7	XICL1622.D	04/03/2018	23:32
	ICIS 160-358742/8	XICL1623.D	04/03/2018	23:58
	IC 160-358742/9	XICL1624.D	04/04/2018	00:23
	IC 160-358742/10	XICL1625.D	04/04/2018	00:48
	ICV 160-358742/13	XICV1628.D	04/04/2018	02:04

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

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Lab File ID: XBFB1630.D BFB Injection Date: 04/04/2018

Instrument ID: VMSX BFB Injection Time: 14:37

Analysis Batch No.: 358977

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.6	
75	30.0 - 60.0 % of mass 95	45.2	
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	69.0	
175	5.0 - 9.0 % of mass 174	4.7	(6.9) 1
176	95.0 - 101.0 % of mass 174	67.3	(97.6) 1
177	5.0 - 9.0 % of mass 176	4.6	(6.8) 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 160-358977/3	XCCV1631.D	04/04/2018	14:59
	LCS 160-358977/4	XLCS1632.D	04/04/2018	15:35
	LCSD 160-358977/5	XLCS1633.D	04/04/2018	16:01
	MB 160-358977/7	XBLK1635.D	04/04/2018	16:51
TB08	280-107941-8	XSMP1636.D	04/04/2018	17:16
FB04	280-107941-9	XSMP1637.D	04/04/2018	17:41
6MW2007	280-107941-1	XSMP1638.D	04/04/2018	18:06
6MW2007MS MS	280-107941-1 MS	XSMP1639.D	04/04/2018	18:31
6MW2007MSD MSD	280-107941-1 MSD	XSMP1640.D	04/04/2018	18:56
6MW2007D	280-107941-2	XSMP1642.D	04/04/2018	19:46
6MW2207	280-107941-3	XSMP1643.D	04/04/2018	20:11
6MW2307	280-107941-4	XSMP1644.D	04/04/2018	20:36
6MW2407	280-107941-5	XSMP1645.D	04/04/2018	21:01
6MW2507	280-107941-6	XSMP1646.D	04/04/2018	21:26
6MW2607	280-107941-7	XSMP1647.D	04/04/2018	21:51
	CCVC 160-358977/20	XCCV1648.D	04/04/2018	22:16

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

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Sample No.: ICIS 160-358742/8 Date Analyzed: 04/03/2018 23:58

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm)

Lab File ID (Standard): XICL1623.D Heated Purge: (Y/N) Y

Calibration ID: 14504

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1931588	8.24	1151232	11.97	502137	14.18
UPPER LIMIT		3863176	8.74	2302464	12.47	1004274	14.68
LOWER LIMIT		965794	7.74	575616	11.47	251069	13.68
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 160-358742/13		1997906	8.24	1181521	11.97	518166	14.18
CCV 160-358977/3		1958477	8.24	1169643	11.97	526927	14.18
LCS 160-358977/4		2012638	8.24	1200447	11.97	534556	14.18
LCSD 160-358977/5		2005489	8.24	1180707	11.97	510923	14.18
MB 160-358977/7		1895357	8.24	1138691	11.97	512482	14.18
280-107941-8	TB08	1941832	8.24	1157054	11.97	511229	14.18
280-107941-9	FB04	1920245	8.24	1127311	11.97	499971	14.18
280-107941-1	6MW2007	1767020	8.24	1066926	11.97	466202	14.18
280-107941-1 MS	6MW2007MS MS	1823913	8.24	1107357	11.97	494457	14.18
280-107941-1 MSD	6MW2007MSD MSD	1798399	8.24	1092014	11.97	480115	14.18
280-107941-2	6MW2007D	1823670	8.24	1078355	11.97	466234	14.18
280-107941-3	6MW2207	1709326	8.24	1017188	11.97	452350	14.18
280-107941-4	6MW2307	1644525	8.24	991269	11.97	431873	14.18
280-107941-5	6MW2407	1580636	8.24	956164	11.97	428819	14.18
280-107941-6	6MW2507	1727923	8.24	1034971	11.97	470781	14.18
280-107941-7	6MW2607	1637790	8.24	973632	11.97	427568	14.18
CCVC 160-358977/20		1821005	8.24	1109303	11.97	493532	14.18

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260C DOD

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2007 | Lab Sample ID: 280-107941-1

Matrix: Water | Lab File ID: XSMP1638.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 18:06

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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	0.80	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2007 | Lab Sample ID: 280-107941-1

Matrix: Water | Lab File ID: XSMP1638.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 18:06

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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 M	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)	104		85-114
1868-53-7	Dibromofluoromethane (Surr)	106		80-119
2037-26-5	Toluene-d8 (Surr)	101		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1638.D
Lims ID: 280-107941-B-1
Client ID: 6MW2007
Sample Type: Client
Inject. Date: 04-Apr-2018 18:06:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-010
Misc. Info.: 280-107941-B-1
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:45:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.043				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62	2.197	2.197	0.000	16	3244	0.2377	a
121 Butadiene	39		2.209				ND	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.907				ND	
122 Dichlorofluoromethane	67		3.001				ND	
8 Ethyl ether	74		3.345				ND	
9 1,1-Dichloroethene	96		3.593				ND	
11 Ethanol	45		3.605				ND	
10 Carbon disulfide	76		3.605				ND	
12 1,1,2-Trichloro-1,2,2-trif	151		3.700				ND	
13 Iodomethane	142		3.782				ND	
14 Acrolein	56		4.126				ND	
15 3-Chloro-1-propene	39		4.339				ND	
16 Isopropyl alcohol	45	4.492	4.492	0.000	95	6036	14.6	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.634				ND	
19 trans-1,2-Dichloroethene	96		4.776				ND	
20 Methyl acetate	74		4.859				ND	
21 Hexane	86		4.930				ND	
22 Methyl tert-butyl ether	73		5.001				ND	
23 2-Methyl-2-propanol	59		5.226				ND	
24 Acetonitrile	41		5.368				ND	
25 Isopropyl ether	45		5.628				ND	
27 2-Chloro-1,3-butadiene	53		5.711				ND	
28 1,1-Dichloroethane	63		5.747				ND	
S 26 1,2-Dichloroethene, Total	96				0		0.7966	
29 Acrylonitrile	53		5.853				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Tert-butyl ethyl ether	59		6.173				ND	
31 Vinyl acetate	43		6.185				ND	
32 cis-1,2-Dichloroethene	96	6.539	6.540	-0.001	77	8203	0.7966	
33 2,2-Dichloropropane	77		6.682				ND	
34 Cyclohexane	84		6.788				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.084				ND	
39 Ethyl acetate	45		7.155				ND	
38 Tetrahydrofuran	71		7.155				ND	
$ 41 Dibromofluoromethane (Surr	113	7.178	7.179	0.000	93	360616	53.0	
40 1,1,1-Trichloroethane	97		7.190				ND	
42 1,1-Dichloropropene	75		7.356				ND	
43 2-Butanone (MEK)	43		7.380				ND	
124 Isooctane	57		7.522				ND	
117 n-Heptane	43		7.687				ND	
44 Benzene	78		7.687				ND	
45 Propionitrile	54		7.758				ND	
46 Methacrylonitrile	41		7.782				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	99	375468	54.0	
48 Tert-amyl methyl ether	73		7.888				ND	
49 1,2-Dichloroethane	62		7.959				ND	
50 Isobutyl alcohol	42		8.090				ND	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1767020	50.0	
52 Methylcyclohexane	55		8.421				ND	
125 1,4-Difluorobenzene	114		8.427				ND	
53 Trichloroethene	95		8.456				ND	
A 126 C6-C12	1	8.915	(3.966-13.864)		0	316176	NC	
54 n-Butanol	56		8.977				ND	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.119				ND	
123 Ethyl acrylate	55		9.202				ND	
57 Dichlorobromomethane	83		9.214				ND	
58 Methyl methacrylate	69		9.450				ND	
59 1,4-Dioxane	88		9.486				ND	
128 2-Pentanone	43		9.634				ND	
60 2-Chloroethyl vinyl ether	63		9.959				ND	
61 cis-1,3-Dichloropropene	75		10.007				ND	
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1717729	50.6	
63 Toluene	92		10.302				ND	
64 2-Nitropropane	43		10.598				ND	
65 Tetrachloroethene	164		10.752				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.788				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
69 Ethyl methacrylate	69		11.024				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.427				ND	
S 73 1,3-Dichloropropene, Total	75		11.620				ND	
118 n-Butyl acetate	43		11.628				ND	
74 2-Hexanone	43		11.711				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	88	1066926	50.0	
75 1-Chlorohexane	91		11.983				ND	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.030				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.598				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.669				ND	
85 Isopropylbenzene	105		12.906				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	83	556529	52.0	
87 Bromobenzene	156		13.261				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.474				ND	
92 1,2,3-Trichloropropane	110		13.485				ND	
93 trans-1,4-Dichloro-2-buten	53		13.521				ND	
94 Cyclohexanone	55		13.533				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.769				ND	
81 Pentachloroethane	167		13.776				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.053				ND	
100 1,3-Dichlorobenzene	146		14.113				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	466202	50.0	
102 1,4-Dichlorobenzene	146		14.195				ND	
119 1,2,3-Trimethylbenzene	105		14.219				ND	
103 n-Butylbenzene	134		14.420				ND	
120 Benzyl chloride	126		14.420				ND	
104 1,2-Dichlorobenzene	146		14.562				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.260				ND	
106 n-Nonyl Aldehyde	57		15.272				ND	
107 1,3,5-Trichlorobenzene	180		15.284				ND	
108 Hexachlorobutadiene	225		15.793				ND	
109 1,2,4-Trichlorobenzene	180		15.828				ND	
110 Naphthalene	128		16.101				ND	
111 1,2,3-Trichlorobenzene	180		16.254				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

Review Flags

a - User Assigned ID

Reagents:

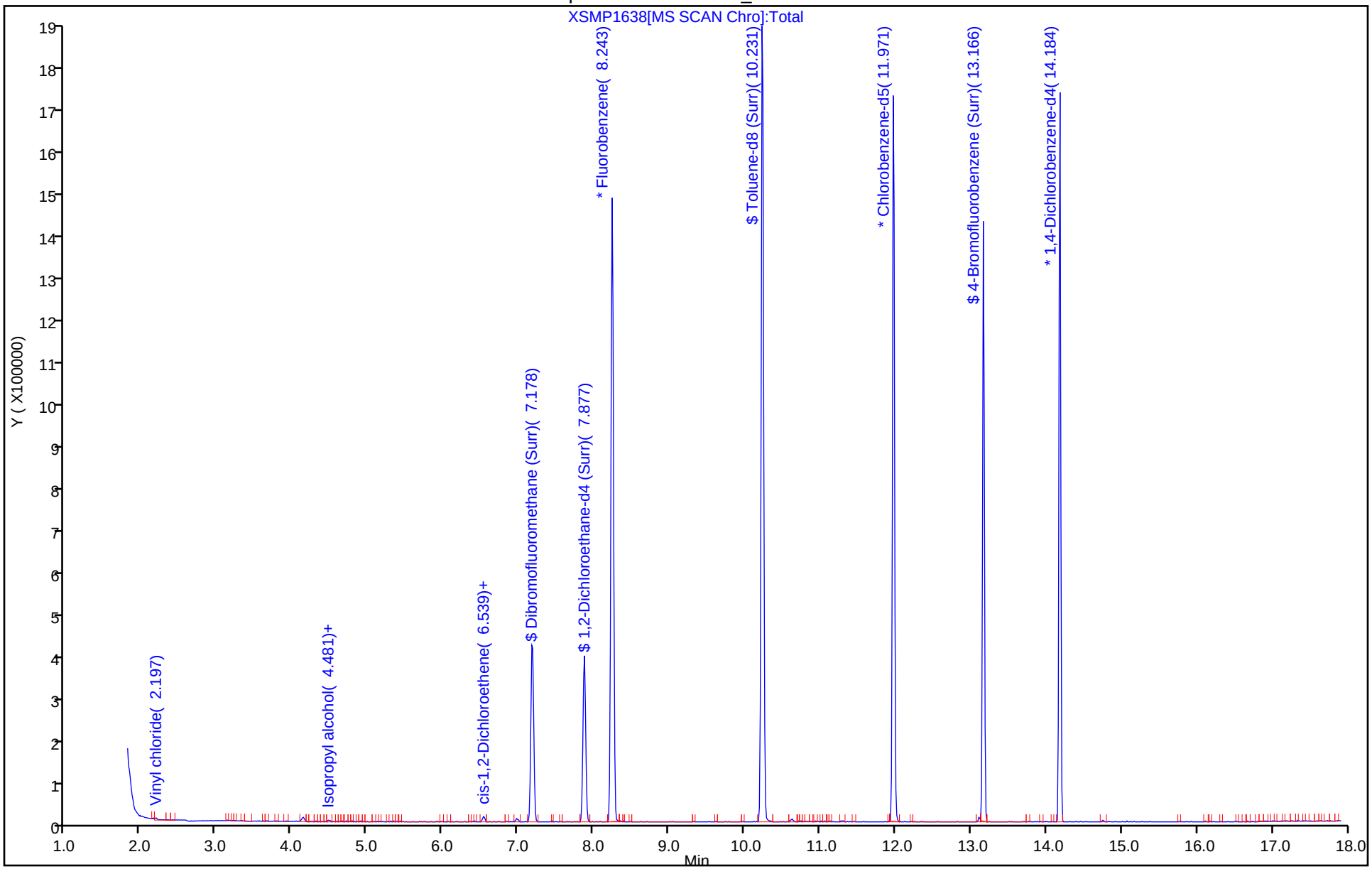
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8260 Surr 25_00085	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:44:09 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1638.D

Injection Date:	04-Apr-2018 18:06:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-107941-B-1	Lab Sample ID:	160-107941-1	Worklist Smp#:	10
Client ID:	6MW2007				
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\20180404-12978.b\XSMP1638.D
Lims ID: 280-107941-B-1
Client ID: 6MW2007
Sample Type: Client
Inject. Date: 04-Apr-2018 18:06:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-010
Misc. Info.: 280-107941-B-1
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:45:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	53.0	105.97
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	54.0	108.05
$ 62 Toluene-d8 (Surr)	50.0	50.6	101.16
$ 86 4-Bromofluorobenzene (Surr)	50.0	52.0	103.99

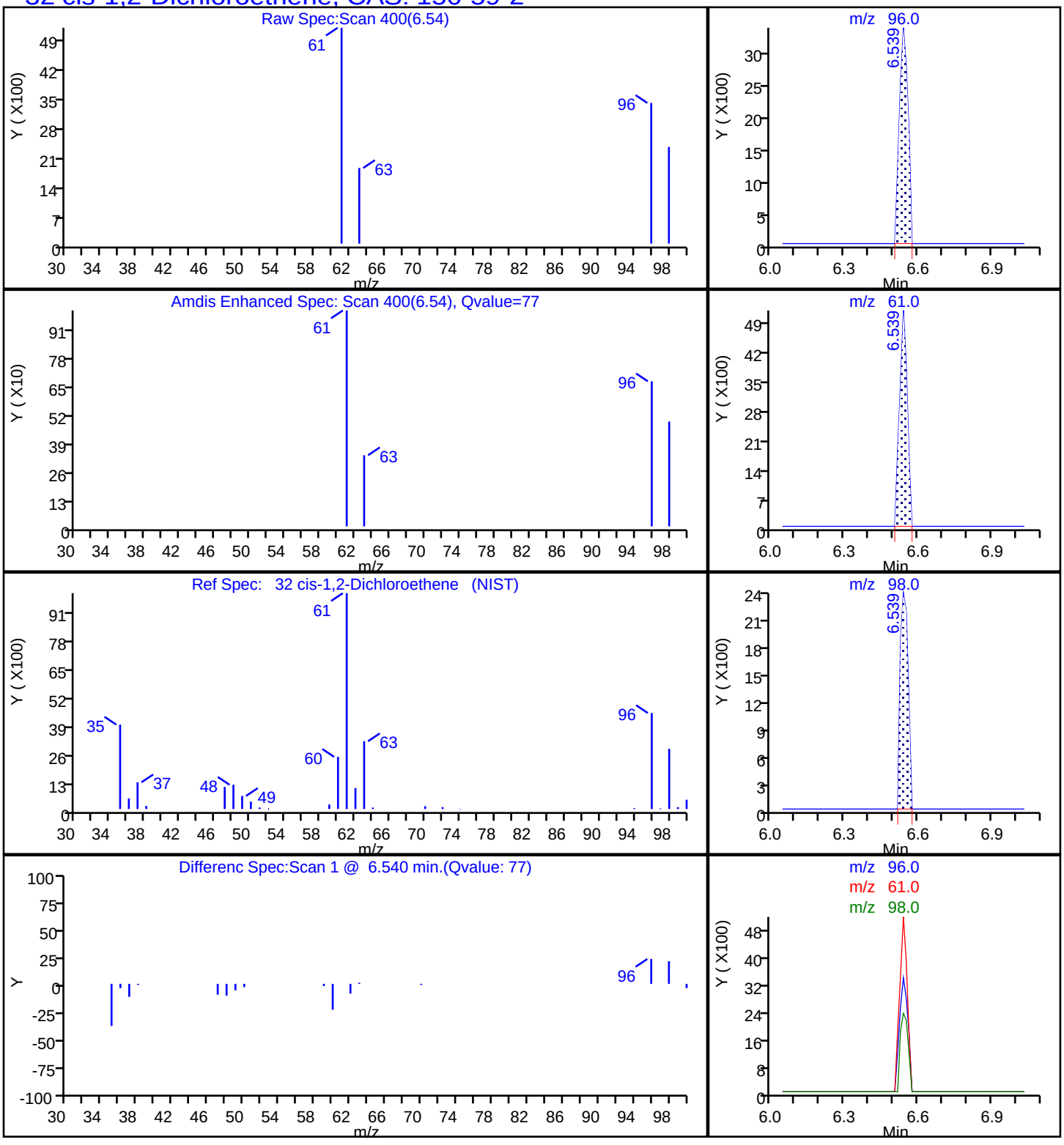
Report Date: 05-Apr-2018 16:44:09 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1638.D

Injection Date:	04-Apr-2018 18:06:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-1	Lab Sample ID:	160-107941-1		
Client ID:	6MW2007				
Operator ID:	JDH	ALS Bottle#:	9	Worklist Smp#:	10
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



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

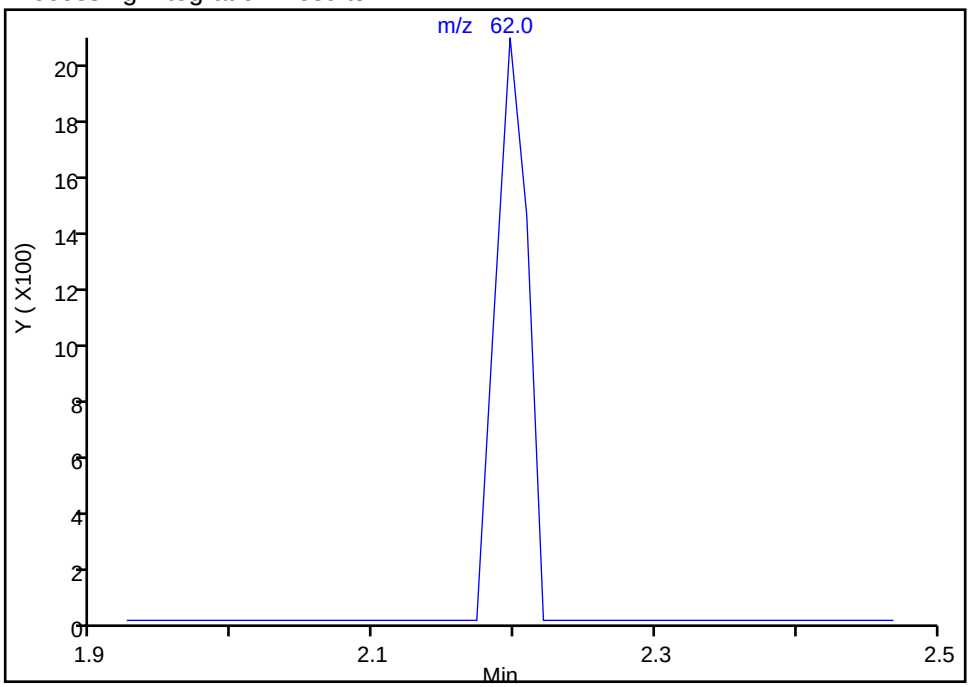
Data File:	\\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1638.D				
Injection Date:	04-Apr-2018 18:06:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-1	Lab Sample ID:	160-107941-1		
Client ID:	6MW2007				
Operator ID:	JDH	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

4 Vinyl chloride, CAS: 75-01-4

Signal: 1

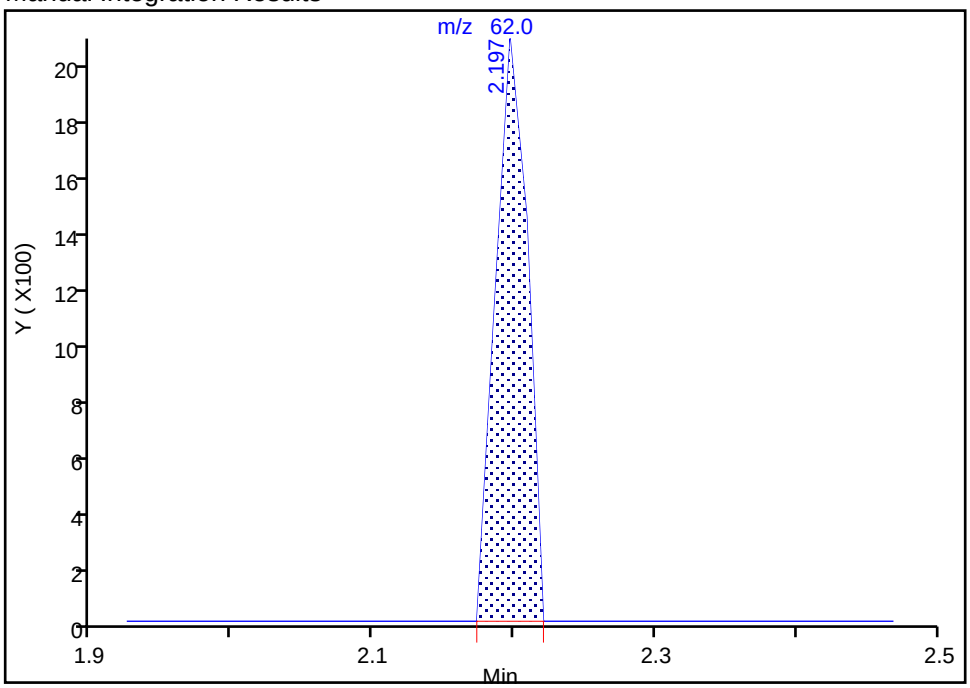
Not Detected
Expected RT: 2.20

Processing Integration Results



Manual Integration Results

RT: 2.20
Area: 3244
Amount: 0.237673
Amount Units: ug/l



Reviewer: hannj, 04-Apr-2018 19:44:45
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2007D | Lab Sample ID: 280-107941-2

Matrix: Water | Lab File ID: XSMP1642.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 09:05

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 19:46

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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	0.70	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2007D | Lab Sample ID: 280-107941-2

Matrix: Water | Lab File ID: XSMP1642.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 09:05

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 19:46

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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 M	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)	103		85-114
1868-53-7	Dibromofluoromethane (Surr)	102		80-119
2037-26-5	Toluene-d8 (Surr)	99		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1642.D
Lims ID: 280-107941-B-2
Client ID: 6MW2007D
Sample Type: Client
Inject. Date: 04-Apr-2018 19:46:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-014
Misc. Info.: 280-107941-B-2
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 20:57:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62	2.197	2.197	0.000	1	3845	0.2730	a
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.907				ND	
9 1,1-Dichloroethene	96		3.593				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.634				ND	
19 trans-1,2-Dichloroethene	96		4.776				ND	
22 Methyl tert-butyl ether	73		5.001				ND	
28 1,1-Dichloroethane	63		5.747				ND	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	76	7466	0.7025	
33 2,2-Dichloropropane	77		6.682				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.084				ND	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.012	93	357523	50.9	
40 1,1,1-Trichloroethane	97		7.190				ND	
42 1,1-Dichloropropene	75		7.356				ND	
43 2-Butanone (MEK)	43		7.380				ND	
44 Benzene	78		7.687				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	377325	52.6	
49 1,2-Dichloroethane	62		7.959				ND	
* 51 Fluorobenzene	96	8.244	8.243	0.001	99	1823670	50.0	
53 Trichloroethene	95		8.456				ND	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.119				ND	
57 Dichlorobromomethane	83		9.214				ND	
61 cis-1,3-Dichloropropene	75		10.007				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1698226	49.5	
63 Toluene	92		10.302				ND	
65 Tetrachloroethene	164		10.752				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.788				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.427				ND	
74 2-Hexanone	43		11.711				ND	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	88	1078355	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.030				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.598				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.669				ND	
85 Isopropylbenzene	105		12.906				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	83	549539	51.3	
87 Bromobenzene	156		13.261				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.474				ND	
92 1,2,3-Trichloropropane	110		13.485				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.769				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.053				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	466234	50.0	
103 n-Butylbenzene	134		14.420				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.260				ND	
110 Naphthalene	128		16.101				ND	
111 1,2,3-Trichlorobenzene	180		16.254				ND	
S 112 Xylenes, Total	106		16.500				ND	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

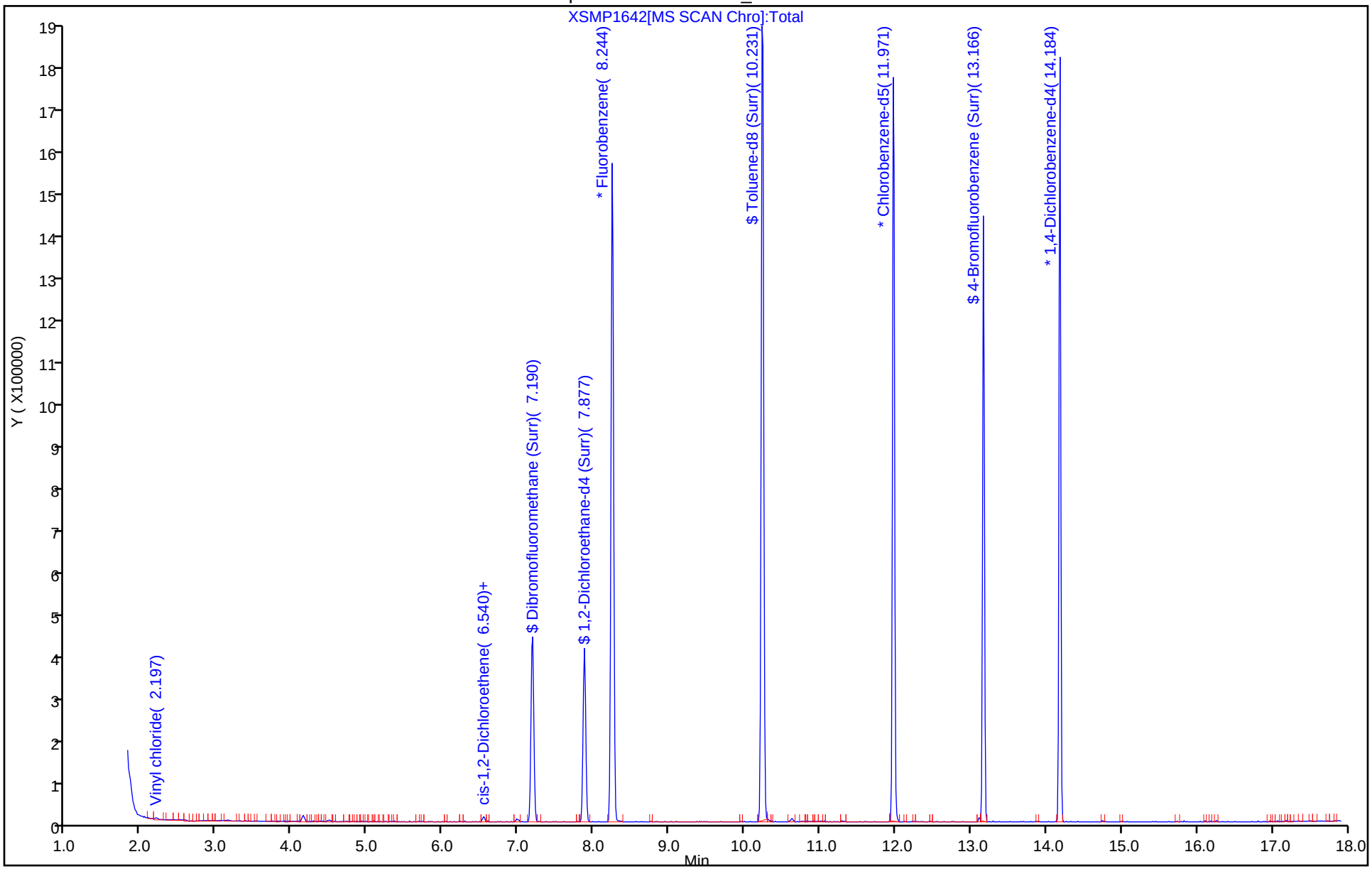
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8260 Surr 25_00085	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:44:13 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1642.D

Injection Date:	04-Apr-2018 19:46:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-107941-B-2	Lab Sample ID:	160-107941-2	Worklist Smp#:	14
Client ID:	6MW2007D				
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\20180404-12978.b\XSMP1642.D
Lims ID: 280-107941-B-2
Client ID: 6MW2007D
Sample Type: Client
Inject. Date: 04-Apr-2018 19:46:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-014
Misc. Info.: 280-107941-B-2
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 20:57:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.9	101.80
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	52.6	105.21
$ 62 Toluene-d8 (Surr)	50.0	49.5	98.95
$ 86 4-Bromofluorobenzene (Surr)	50.0	51.3	102.67

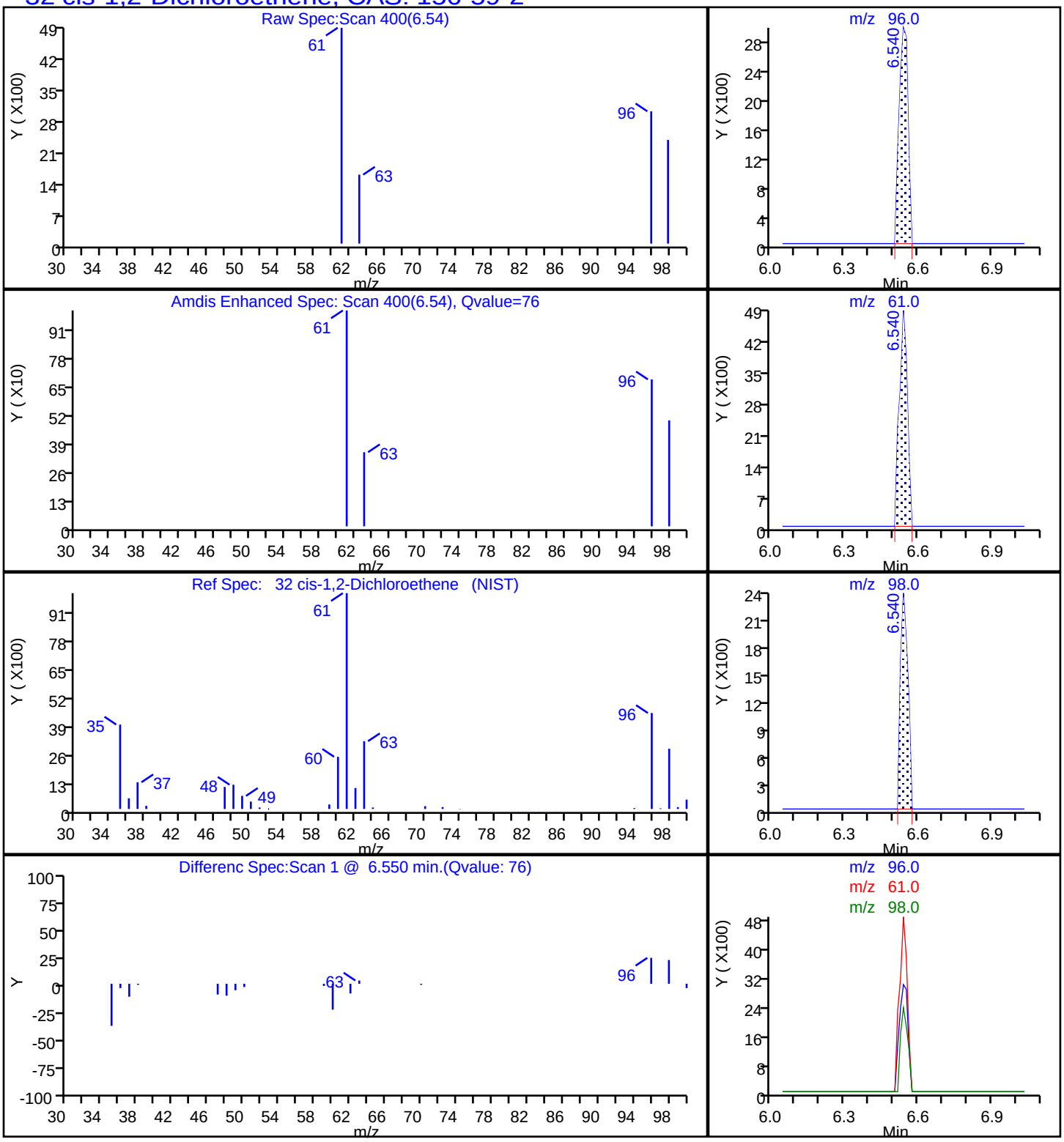
Report Date: 05-Apr-2018 16:44:13 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1642.D

Injection Date:	04-Apr-2018 19:46:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-2	Lab Sample ID:	160-107941-2		
Client ID:	6MW2007D				
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



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

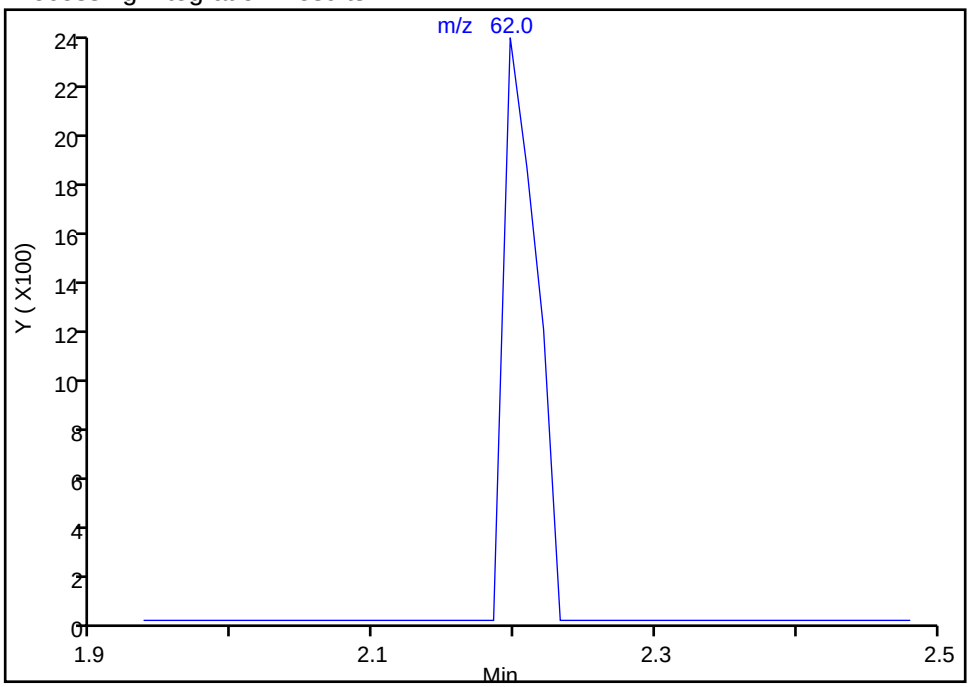
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Injection Date:	04-Apr-2018 19:46:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-2	Lab Sample ID:	160-107941-2		
Client ID:	6MW2007D				
Operator ID:	JDH	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

4 Vinyl chloride, CAS: 75-01-4

Signal: 1

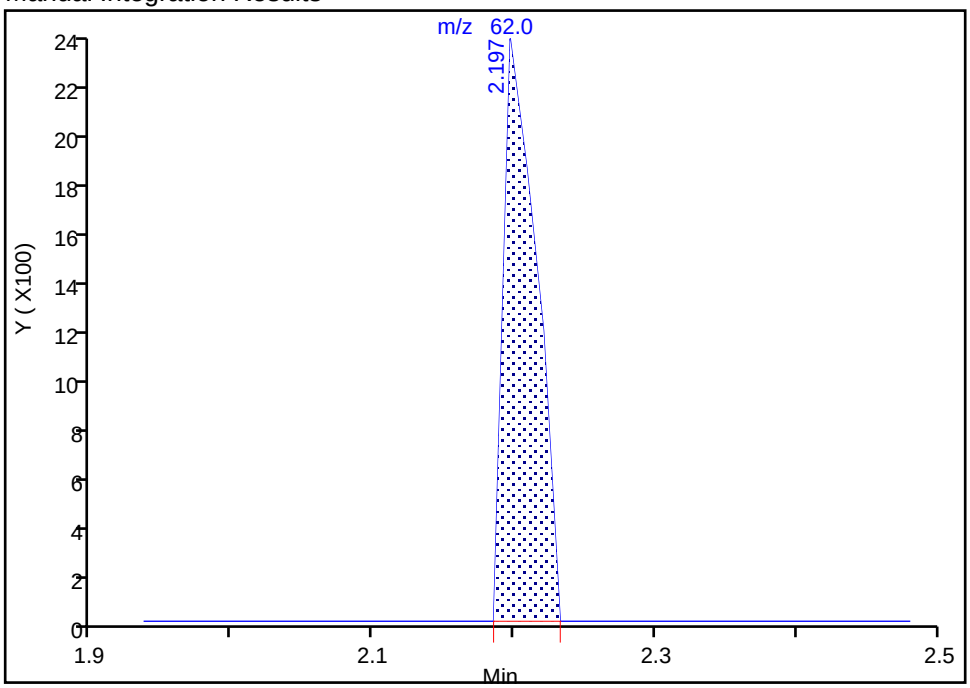
Not Detected
Expected RT: 2.20

Processing Integration Results



Manual Integration Results

RT: 2.20
Area: 3845
Amount: 0.272955
Amount Units: ug/l



Reviewer: hannj, 04-Apr-2018 20:57:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2207 | Lab Sample ID: 280-107941-3

Matrix: Water | Lab File ID: XSMP1643.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 10:20

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 20:11

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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	7.8	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	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	0.81	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2207 | Lab Sample ID: 280-107941-3

Matrix: Water | Lab File ID: XSMP1643.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 10:20

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 20:11

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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	1.5	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	0.41	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 M	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)	95		85-114
1868-53-7	Dibromofluoromethane (Surr)	99		80-119
2037-26-5	Toluene-d8 (Surr)	95		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1643.D
Lims ID: 280-107941-B-3
Client ID: 6MW2207
Sample Type: Client
Inject. Date: 04-Apr-2018 20:11:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-015
Misc. Info.: 280-107941-B-3
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 20:58:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62	2.197	2.197	0.000	1	3874	0.2934	a
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.907				ND	
9 1,1-Dichloroethene	96		3.593				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43	4.646	4.634	0.012	98	6994	7.80	
19 trans-1,2-Dichloroethene	96		4.776				ND	
22 Methyl tert-butyl ether	73		5.001				ND	
28 1,1-Dichloroethane	63		5.747				ND	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	77	8103	0.8134	
33 2,2-Dichloropropane	77		6.682				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.084				ND	
$ 41 Dibromofluoromethane (Surr	113	7.179	7.179	0.001	93	324307	49.3	
40 1,1,1-Trichloroethane	97		7.190				ND	
42 1,1-Dichloropropene	75		7.356				ND	
43 2-Butanone (MEK)	43		7.380				ND	
44 Benzene	78		7.687				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	343996	51.2	
49 1,2-Dichloroethane	62		7.959				ND	
* 51 Fluorobenzene	96	8.244	8.243	0.001	99	1709326	50.0	
53 Trichloroethene	95	8.457	8.456	0.001	88	4132	0.4140	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.119				ND	
57 Dichlorobromomethane	83		9.214				ND	
61 cis-1,3-Dichloropropene	75		10.007				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1533540	47.4	
63 Toluene	92		10.302				ND	
65 Tetrachloroethene	164	10.752	10.752	0.000	94	11048	1.48	
66 4-Methyl-2-pentanone (MIBK	43		10.788				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.427				ND	
74 2-Hexanone	43		11.711				ND	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	89	1017188	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.030				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.598				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.669				ND	
85 Isopropylbenzene	105		12.906				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	84	494793	47.6	
87 Bromobenzene	156		13.261				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.474				ND	
92 1,2,3-Trichloropropane	110		13.485				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.769				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.053				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	452350	50.0	
103 n-Butylbenzene	134		14.420				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.260				ND	
110 Naphthalene	128		16.101				ND	
111 1,2,3-Trichlorobenzene	180		16.254				ND	
S 112 Xylenes, Total	106		16.500				ND	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

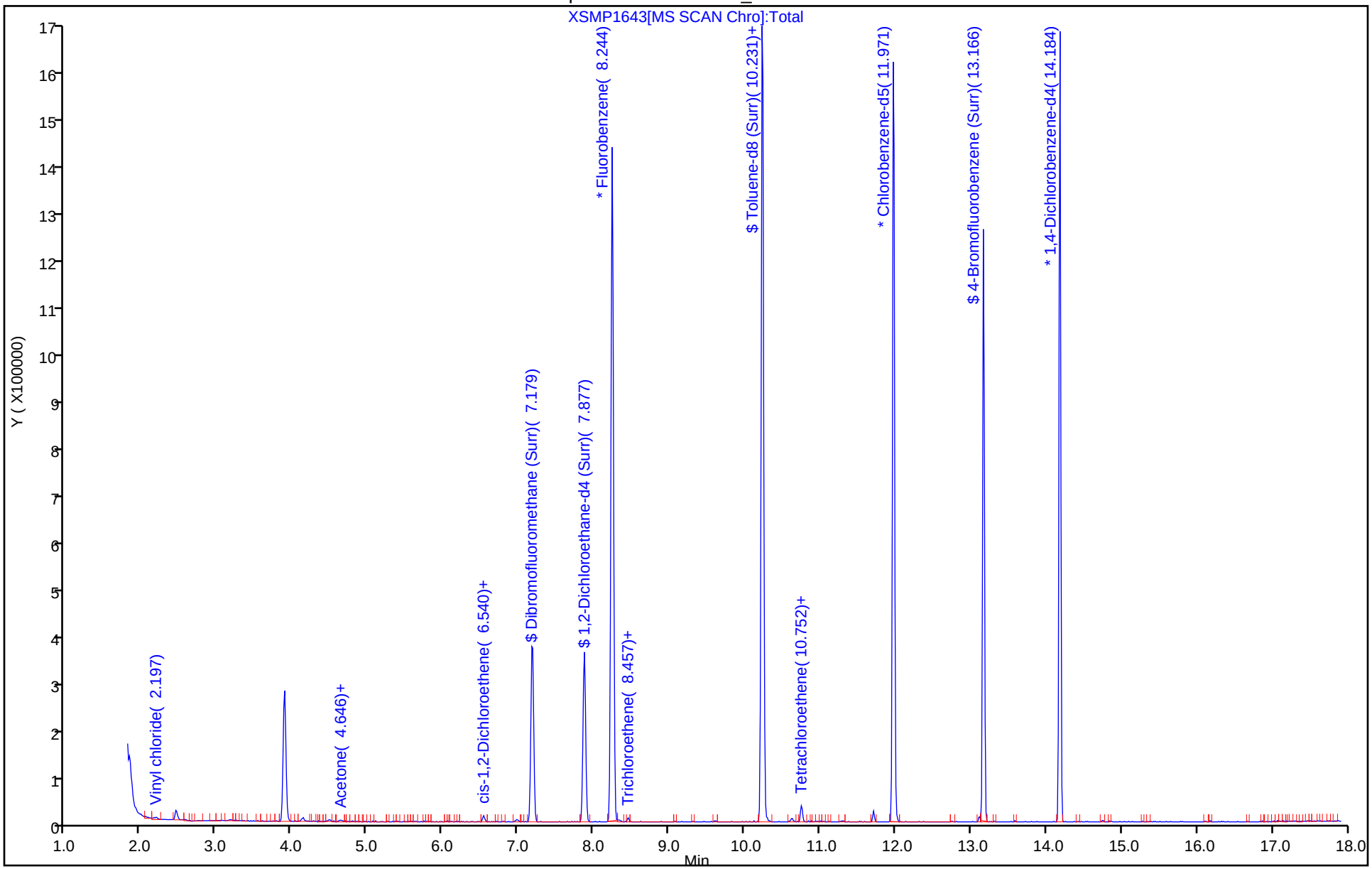
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00085	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:44:14 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1643.D

Injection Date:	04-Apr-2018 20:11:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-107941-B-3	Lab Sample ID:	160-107941-3	Worklist Smp#:	15
Client ID:	6MW2207				
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\20180404-12978.b\XSMP1643.D
Lims ID: 280-107941-B-3
Client ID: 6MW2207
Sample Type: Client
Inject. Date: 04-Apr-2018 20:11:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-015
Misc. Info.: 280-107941-B-3
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 20:58:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.3	98.52
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	51.2	102.33
$ 62 Toluene-d8 (Surr)	50.0	47.4	94.72
$ 86 4-Bromofluorobenzene (Surr)	50.0	47.6	95.28

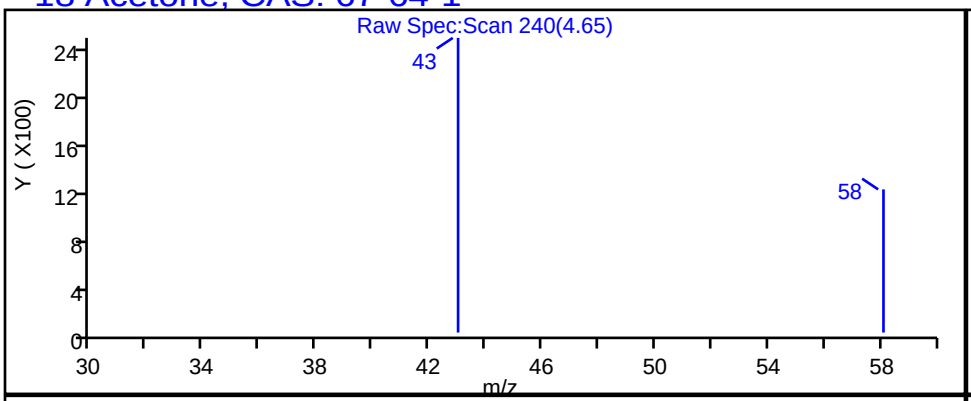
Report Date: 05-Apr-2018 16:44:14 Chrom Revision: 2.2 13-Mar-2018 08:45:20

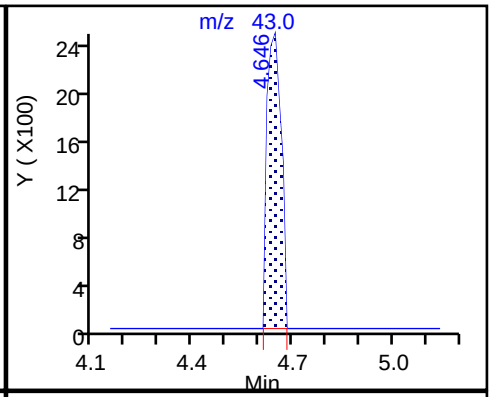
TestAmerica St. Louis

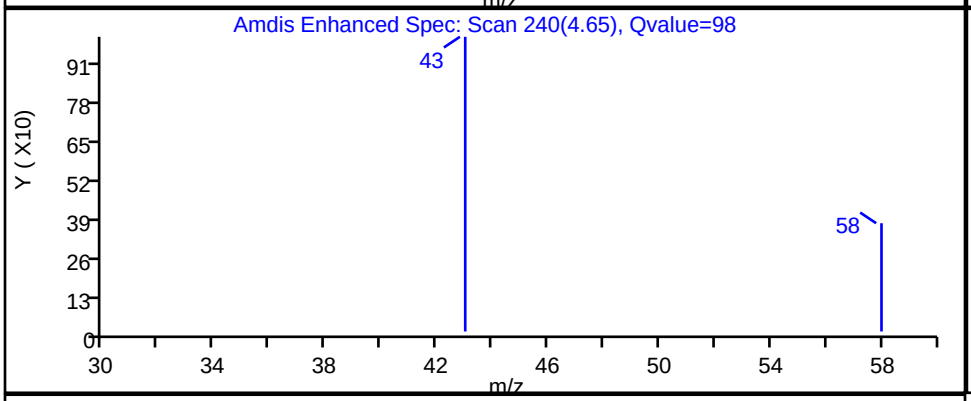
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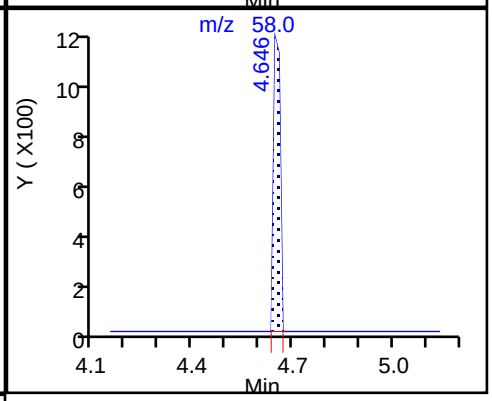
Injection Date:	04-Apr-2018 20:11:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-3	Lab Sample ID:	160-107941-3		
Client ID:	6MW2207				
Operator ID:	JDH	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

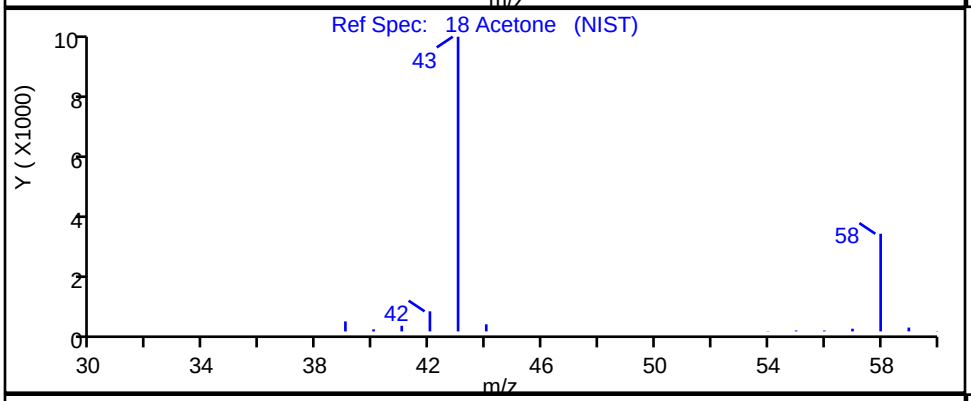
18 Acetone, CAS: 67-64-1

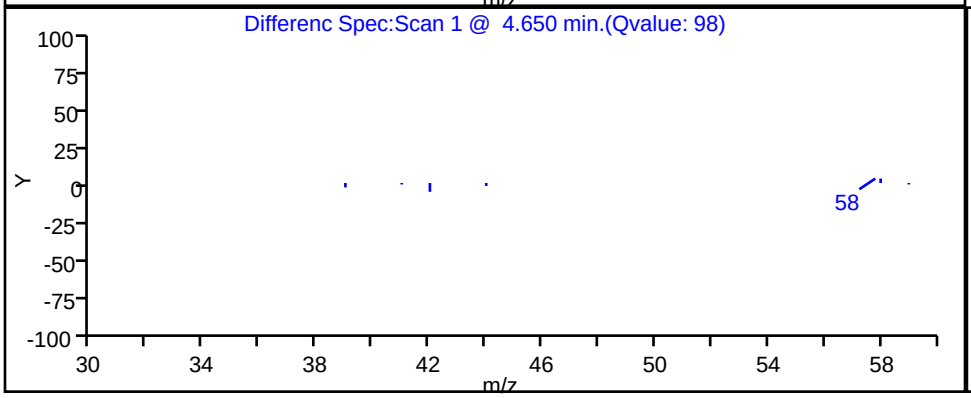


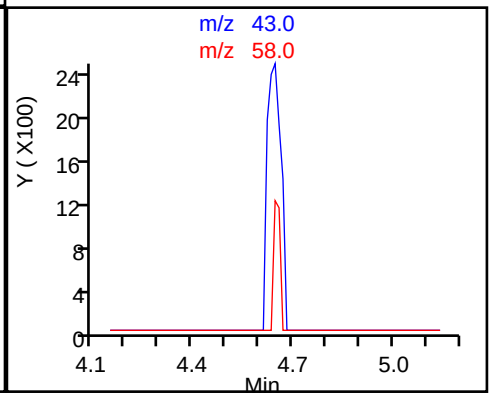












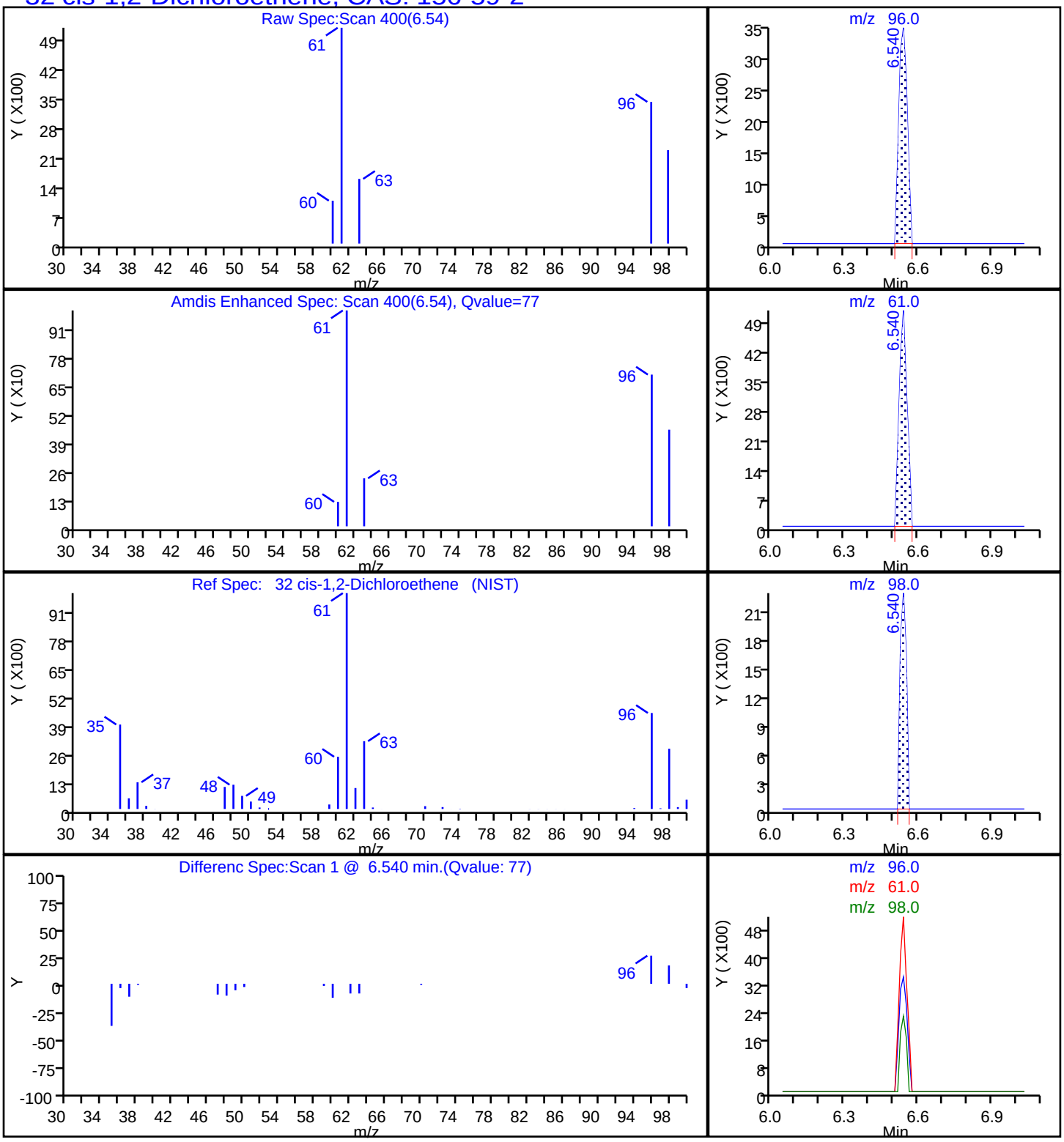
Report Date: 05-Apr-2018 16:44:14 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1643.D

Injection Date:	04-Apr-2018 20:11:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-3	Lab Sample ID:	160-107941-3		
Client ID:	6MW2207				
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



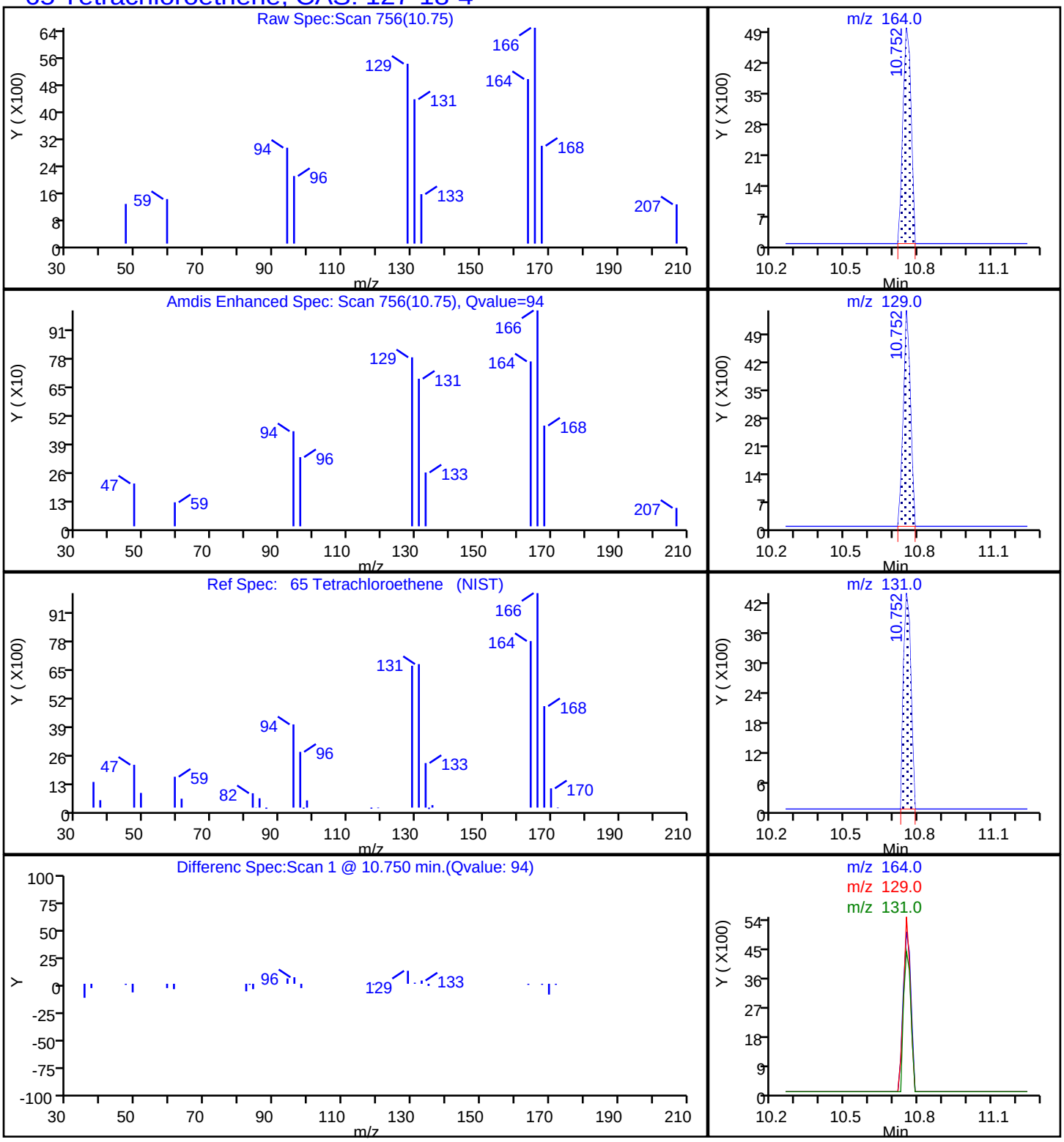
Report Date: 05-Apr-2018 16:44:14 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1643.D

Injection Date:	04-Apr-2018 20:11:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-3	Lab Sample ID:	160-107941-3		
Client ID:	6MW2207				
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

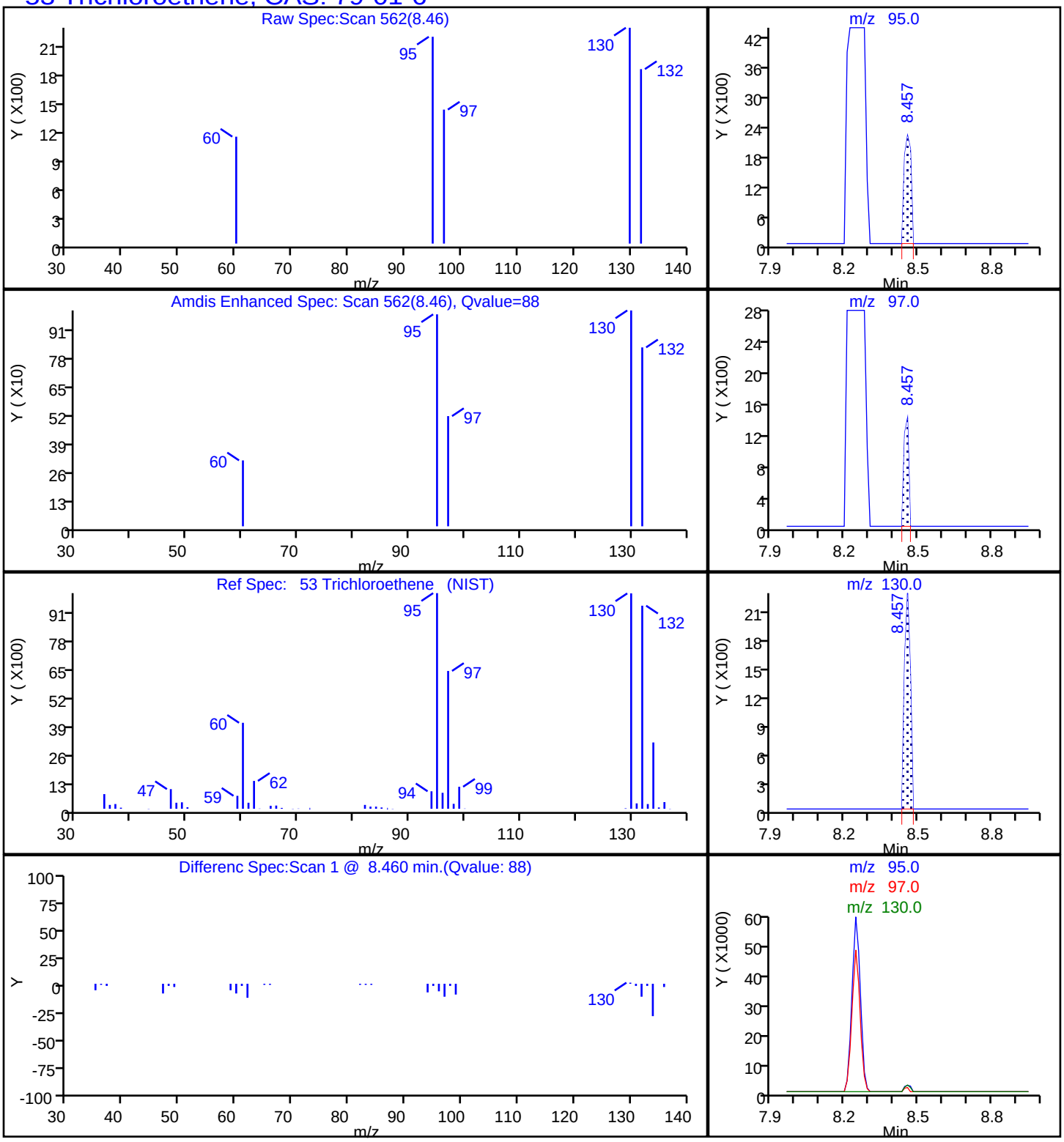


Report Date: 05-Apr-2018 16:44:14 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File:	\\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1643.D		
Injection Date:	04-Apr-2018 20:11:30	Instrument ID:	VMSX
Lims ID:	280-107941-B-3	Lab Sample ID:	160-107941-3
Client ID:	6MW2207		
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



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

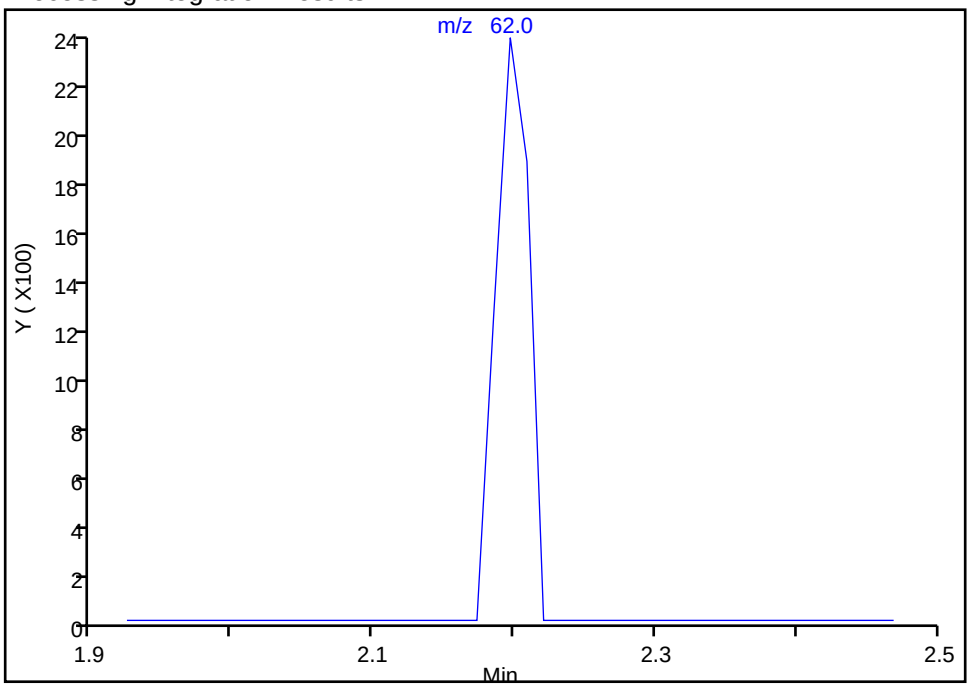
Data File:	\\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1643.D				
Injection Date:	04-Apr-2018 20:11:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-3	Lab Sample ID:	160-107941-3		
Client ID:	6MW2207				
Operator ID:	JDH	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

4 Vinyl chloride, CAS: 75-01-4

Signal: 1

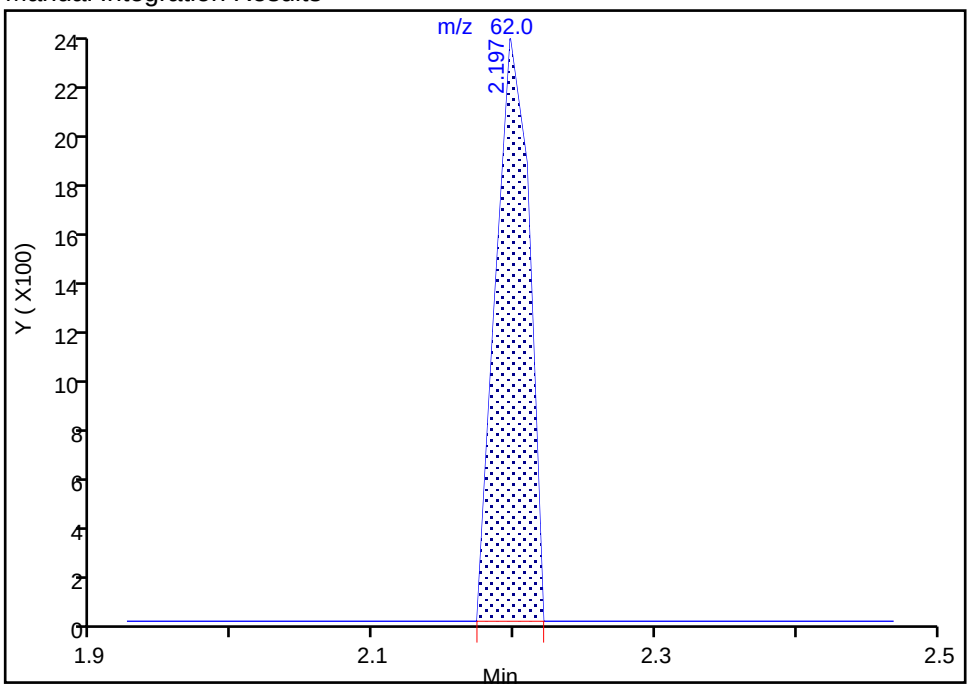
Not Detected
Expected RT: 2.20

Processing Integration Results



Manual Integration Results

RT: 2.20
Area: 3874
Amount: 0.293410
Amount Units: ug/l



Reviewer: hannj, 04-Apr-2018 20:58:01
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2307 | Lab Sample ID: 280-107941-4

Matrix: Water | Lab File ID: XSMP1644.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 11:05

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 20:36

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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	1.3	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2307 | Lab Sample ID: 280-107941-4

Matrix: Water | Lab File ID: XSMP1644.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 11:05

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 20:36

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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	0.80	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	0.78	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	0.54	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)	107		81-118
460-00-4	4-Bromofluorobenzene (Surr)	103		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\20180404-12978.b\XSMP1644.D
Lims ID: 280-107941-B-4
Client ID: 6MW2307
Sample Type: Client
Inject. Date: 04-Apr-2018 20:36:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-016
Misc. Info.: 280-107941-B-4
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 20:59:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62	2.197	2.197	0.000	95	6807	0.5359	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.907				ND	
9 1,1-Dichloroethene	96		3.593				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.634				ND	
19 trans-1,2-Dichloroethene	96		4.776				ND	
22 Methyl tert-butyl ether	73		5.001				ND	
28 1,1-Dichloroethane	63		5.747				ND	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	82	12410	1.29	
33 2,2-Dichloropropane	77		6.682				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.084				ND	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.012	93	333477	52.6	
40 1,1,1-Trichloroethane	97		7.190				ND	
42 1,1-Dichloropropene	75		7.356				ND	
43 2-Butanone (MEK)	43		7.380				ND	
44 Benzene	78		7.687				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	345891	53.5	
49 1,2-Dichloroethane	62		7.959				ND	
* 51 Fluorobenzene	96	8.244	8.243	0.001	99	1644525	50.0	
53 Trichloroethene	95	8.457	8.456	0.001	89	7480	0.7790	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.119				ND	
57 Dichlorobromomethane	83		9.214				ND	
61 cis-1,3-Dichloropropene	75		10.007				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1578168	50.0	
63 Toluene	92		10.302				ND	
65 Tetrachloroethene	164	10.752	10.752	0.000	90	5824	0.8010	
66 4-Methyl-2-pentanone (MIBK	43		10.788				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.427				ND	
74 2-Hexanone	43		11.711				ND	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	89	991269	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.030				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.598				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.669				ND	
85 Isopropylbenzene	105		12.906				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	83	508270	51.3	
87 Bromobenzene	156		13.261				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.474				ND	
92 1,2,3-Trichloropropane	110		13.485				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.769				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.053				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	431873	50.0	
103 n-Butylbenzene	134		14.420				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.260				ND	
110 Naphthalene	128		16.101				ND	
111 1,2,3-Trichlorobenzene	180		16.254				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

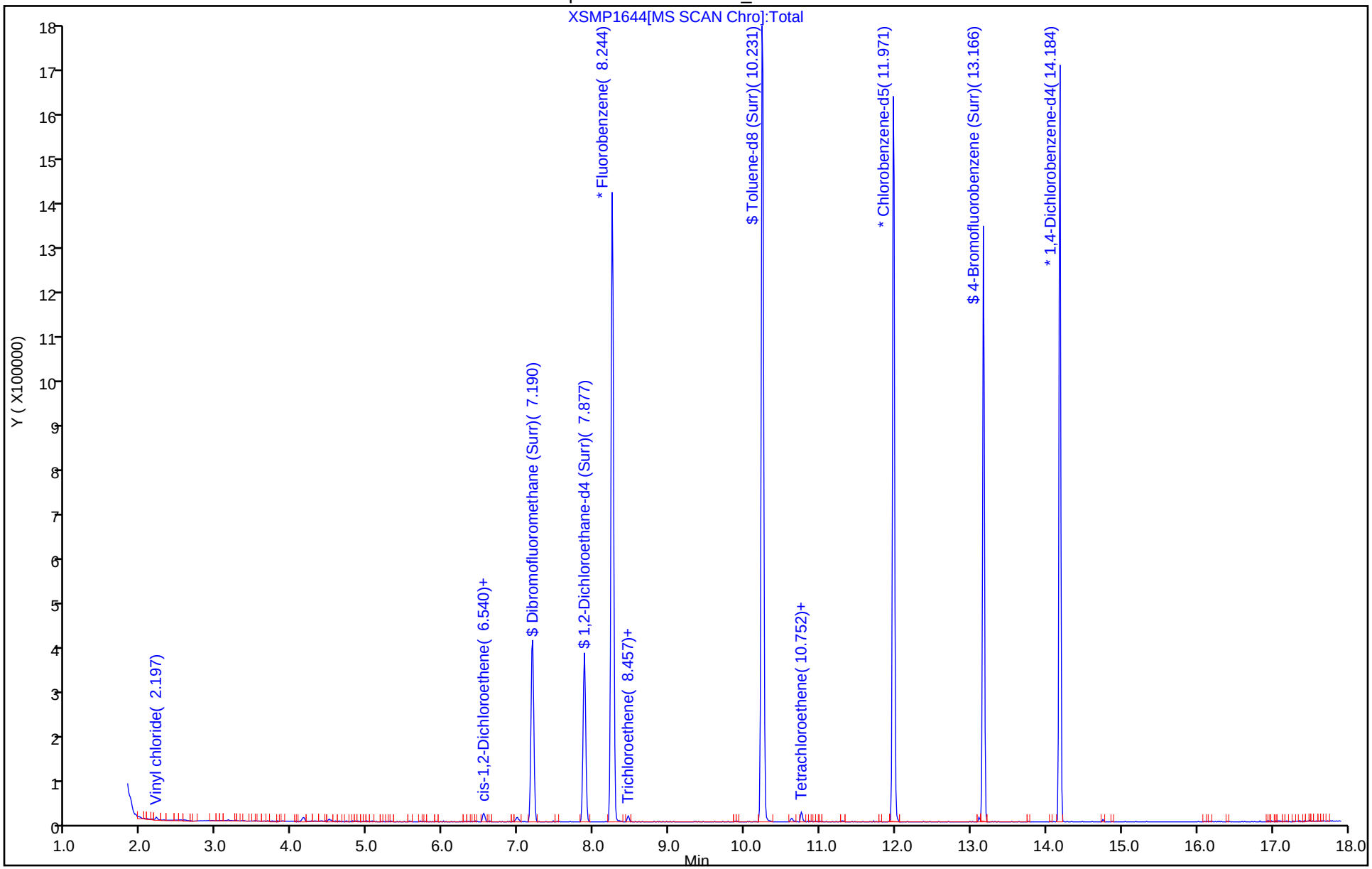
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8260 Surr 25_00085	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:44:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1644.D

Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-107941-B-4	Lab Sample ID:	160-107941-4	Worklist Smp#:	16
Client ID:	6MW2307				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1644.D
Lims ID: 280-107941-B-4
Client ID: 6MW2307
Sample Type: Client
Inject. Date: 04-Apr-2018 20:36:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-016
Misc. Info.: 280-107941-B-4
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 20:59:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	52.6	105.30
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	53.5	106.95
$ 62 Toluene-d8 (Surr)	50.0	50.0	100.03
$ 86 4-Bromofluorobenzene (Surr)	50.0	51.3	102.52

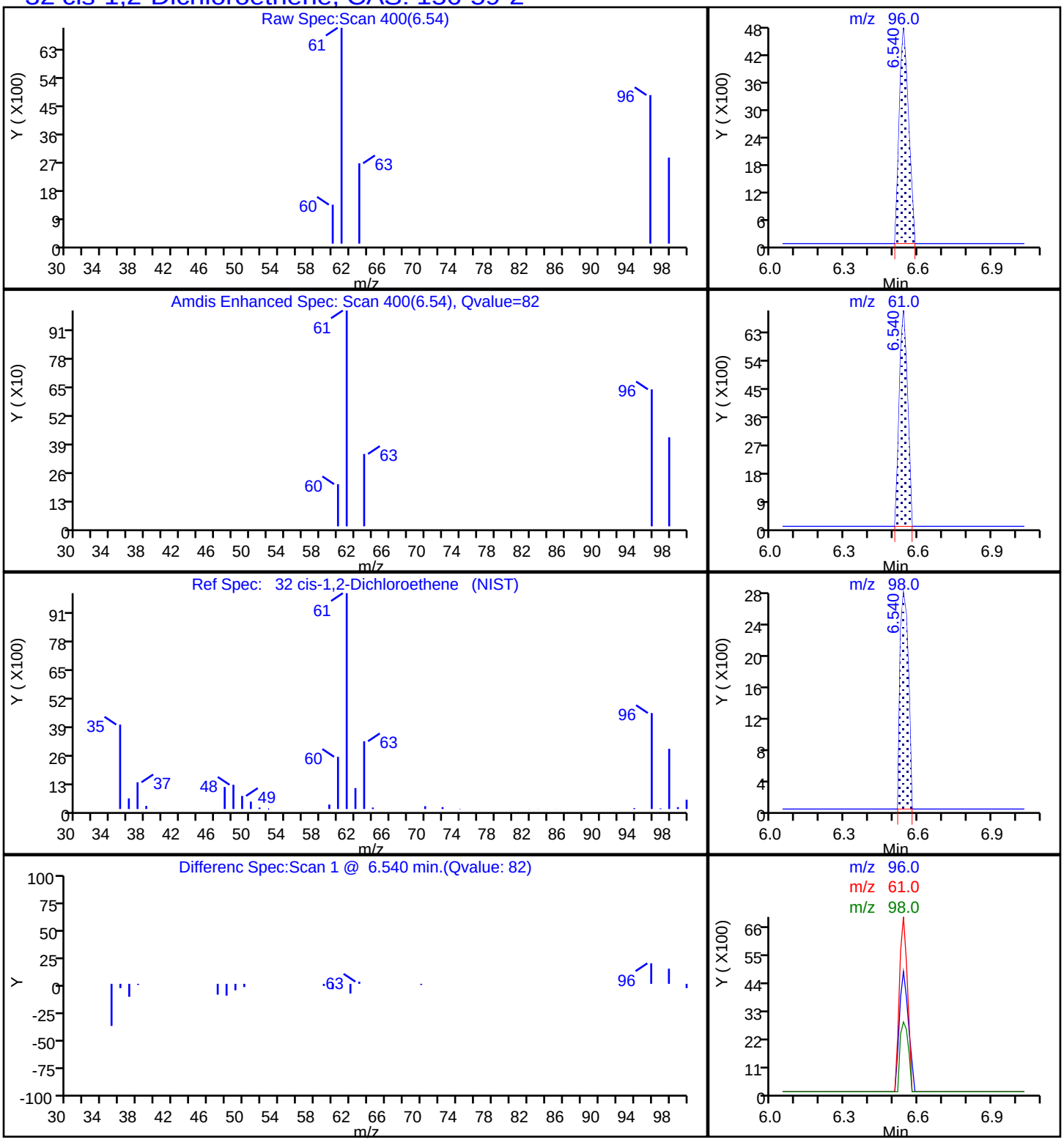
Report Date: 05-Apr-2018 16:44:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1644.D

Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-4	Lab Sample ID:	160-107941-4		
Client ID:	6MW2307				
Operator ID:	JDH	ALS Bottle#:	15	Worklist Smp#:	16
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



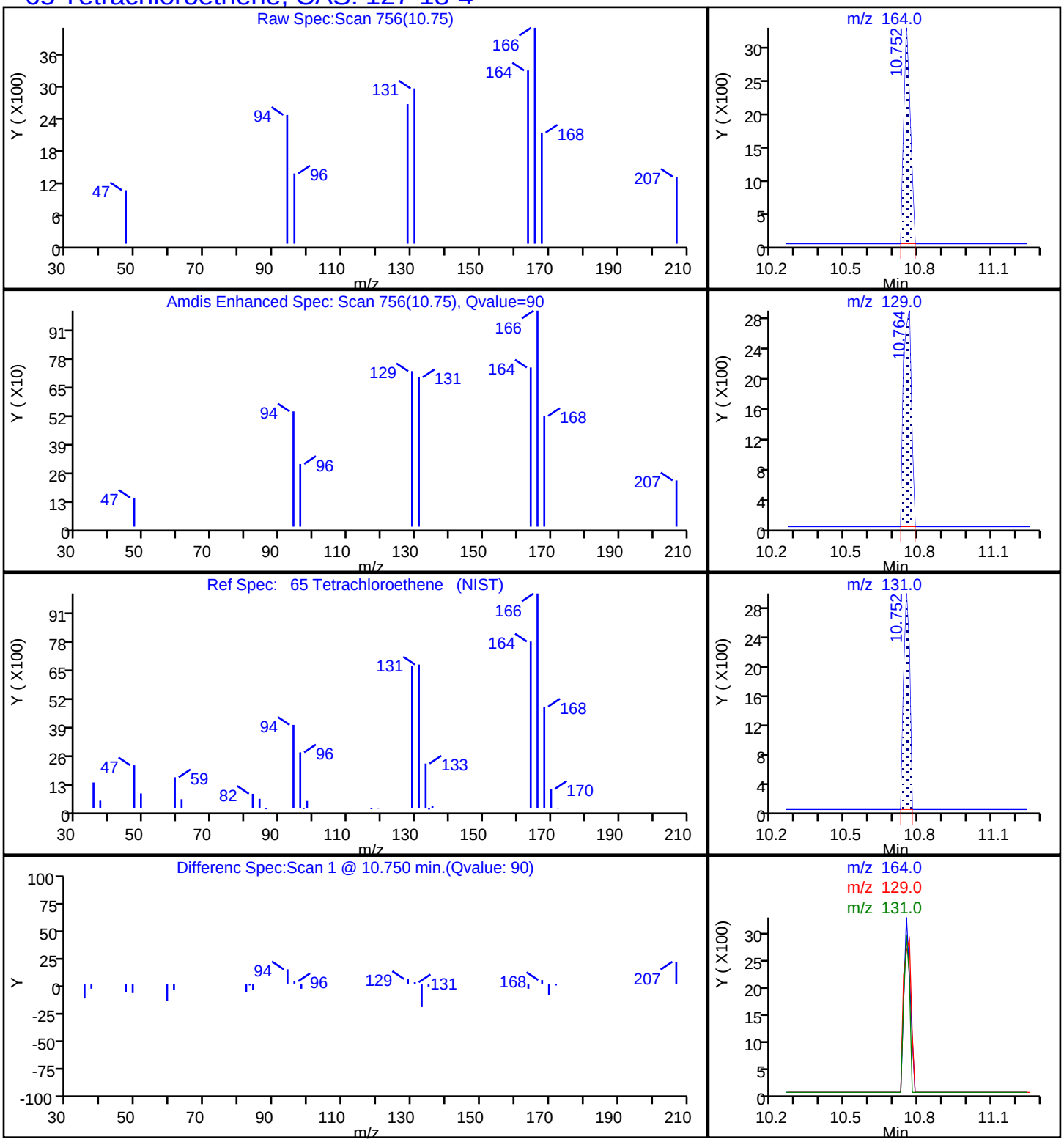
Report Date: 05-Apr-2018 16:44:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1644.D

Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-4	Lab Sample ID:	160-107941-4		
Client ID:	6MW2307				
Operator ID:	JDH	ALS Bottle#:	15	Worklist Smp#:	16
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



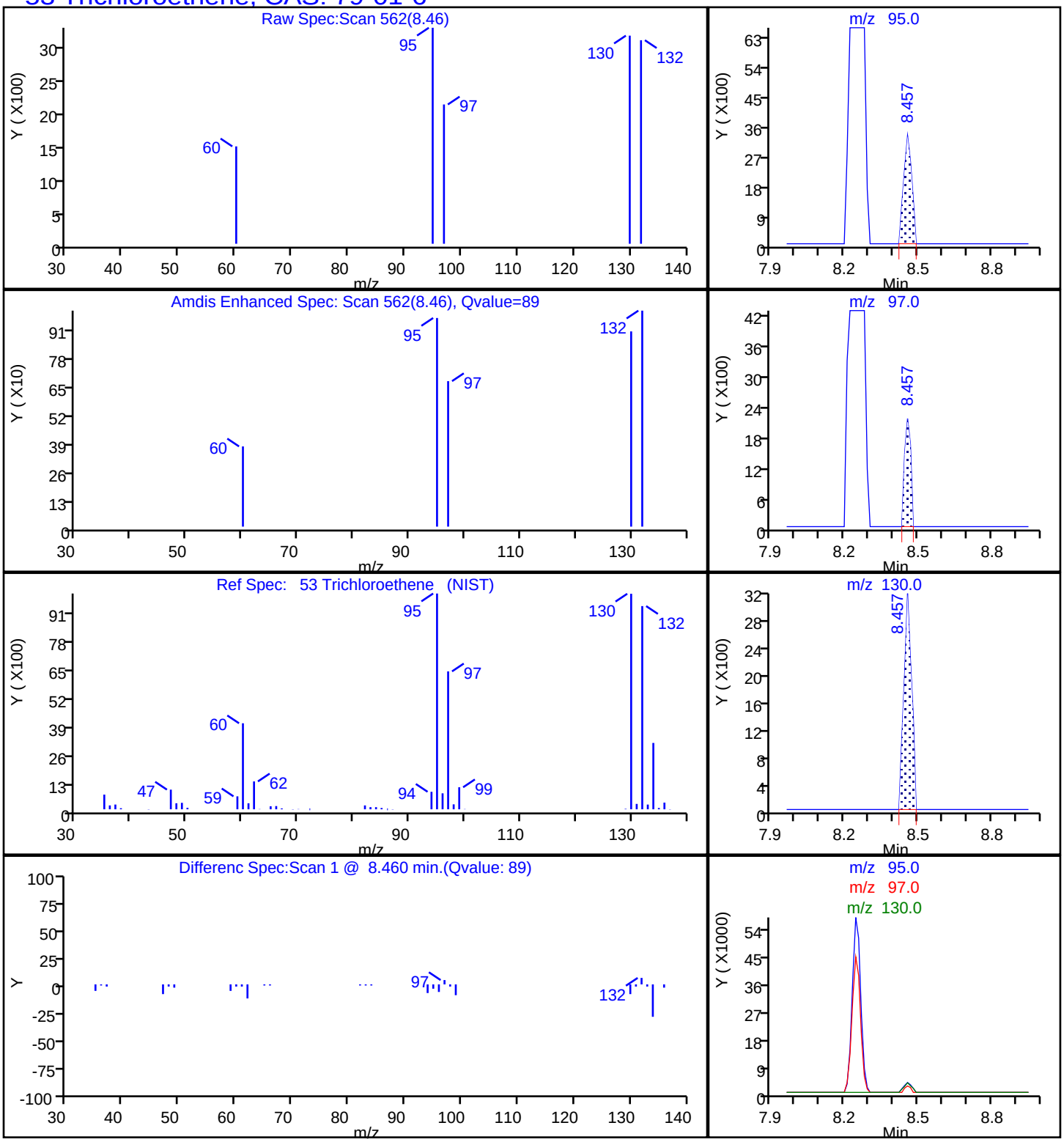
Report Date: 05-Apr-2018 16:44:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1644.D

Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-4	Lab Sample ID:	160-107941-4		
Client ID:	6MW2307				
Operator ID:	JDH	ALS Bottle#:	15	Worklist Smp#:	16
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



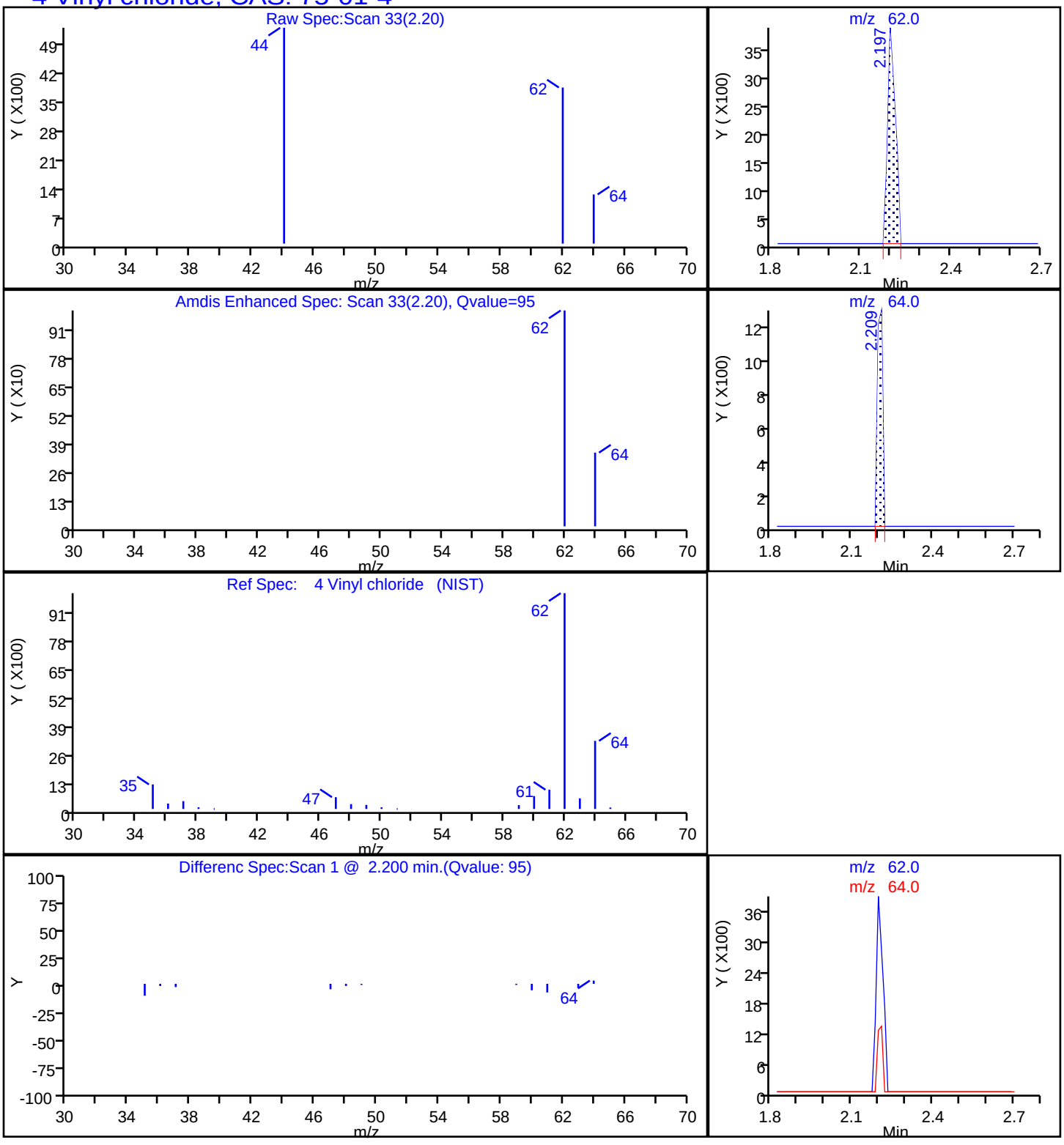
Report Date: 05-Apr-2018 16:44:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1644.D

Injection Date:	04-Apr-2018 20:36:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-4	Lab Sample ID:	160-107941-4		
Client ID:	6MW2307				
Operator ID:	JDH	ALS Bottle#:	15	Worklist Smp#:	16
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.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2407 | Lab Sample ID: 280-107941-5

Matrix: Water | Lab File ID: XSMP1645.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 21:01

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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	2.2	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2407 | Lab Sample ID: 280-107941-5

Matrix: Water | Lab File ID: XSMP1645.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 21:01

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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	6.3		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)	111		81-118
460-00-4	4-Bromofluorobenzene (Surr)	102		85-114
1868-53-7	Dibromofluoromethane (Surr)	107		80-119
2037-26-5	Toluene-d8 (Surr)	102		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1645.D
Lims ID: 280-107941-B-5
Client ID: 6MW2407
Sample Type: Client
Inject. Date: 04-Apr-2018 21:01:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-017
Misc. Info.: 280-107941-B-5
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 21:24:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62		2.197				ND	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.907				ND	
9 1,1-Dichloroethene	96		3.593				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.634				ND	
19 trans-1,2-Dichloroethene	96		4.776				ND	
22 Methyl tert-butyl ether	73		5.001				ND	
28 1,1-Dichloroethane	63		5.747				ND	
32 cis-1,2-Dichloroethene	96	6.539	6.540	-0.001	77	20464		2.22
33 2,2-Dichloropropane	77		6.682				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.084				ND	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.012	93	325042		53.4
40 1,1,1-Trichloroethane	97		7.190				ND	
42 1,1-Dichloropropene	75		7.356				ND	
43 2-Butanone (MEK)	43		7.380				ND	
44 Benzene	78		7.687				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	346376		55.7
49 1,2-Dichloroethane	62		7.959				ND	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1580636		50.0
53 Trichloroethene	95	8.456	8.456	0.000	96	58047		6.29
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.119				ND	
57 Dichlorobromomethane	83		9.214				ND	
61 cis-1,3-Dichloropropene	75		10.007				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1550197	50.9	
63 Toluene	92		10.302				ND	
65 Tetrachloroethene	164		10.752				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.788				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.427				ND	
74 2-Hexanone	43		11.711				ND	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	89	956164	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.030				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.598				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.669				ND	
85 Isopropylbenzene	105		12.906				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	82	502593	51.0	
87 Bromobenzene	156		13.261				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.474				ND	
92 1,2,3-Trichloropropane	110		13.485				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.769				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.053				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.183	14.184	-0.001	97	428819	50.0	
103 n-Butylbenzene	134		14.420				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.260				ND	
110 Naphthalene	128		16.101				ND	
111 1,2,3-Trichlorobenzene	180		16.254				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

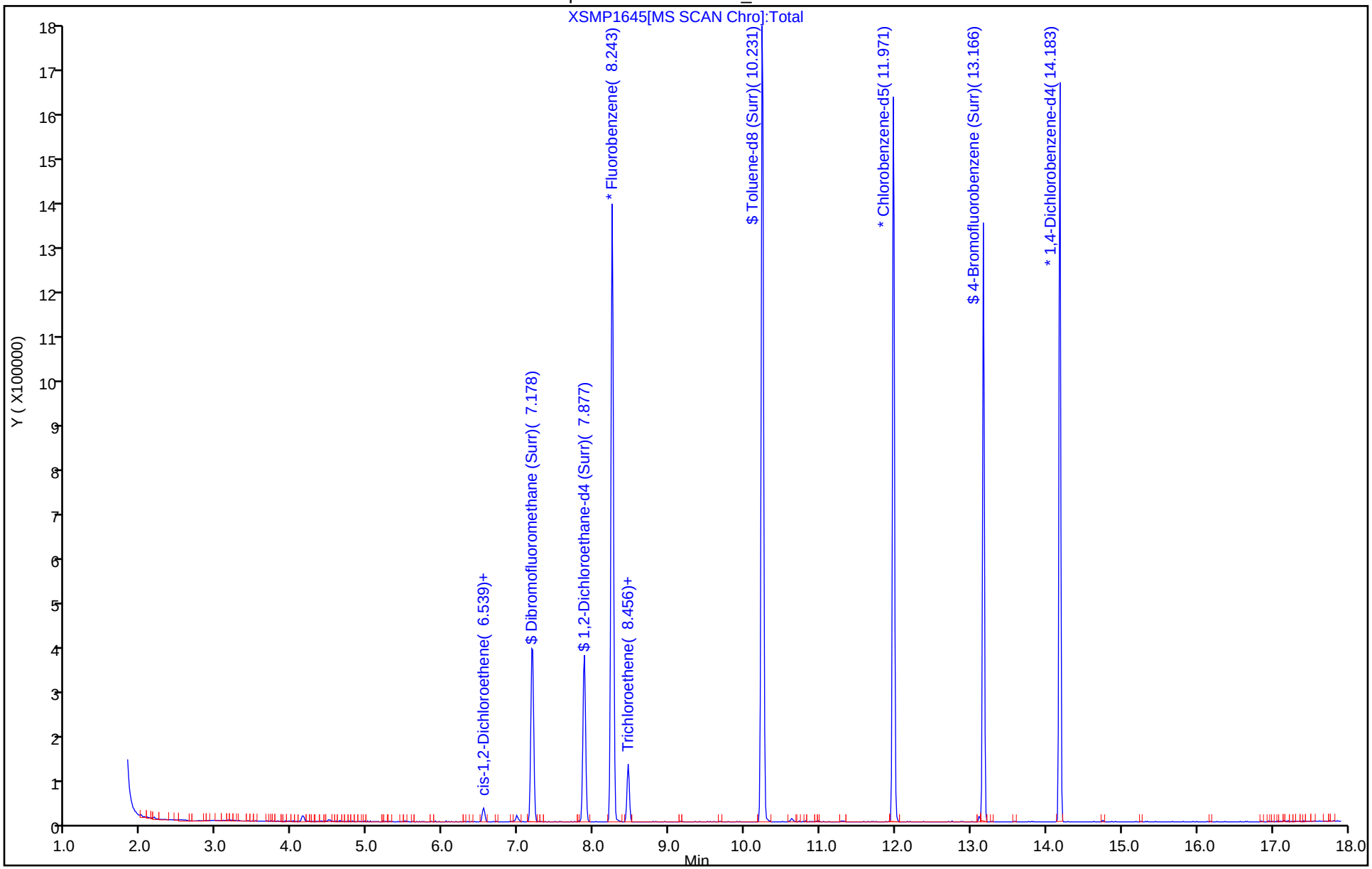
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00085	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:44:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1645.D

Injection Date:	04-Apr-2018 21:01:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-107941-B-5	Lab Sample ID:	160-107941-5	Worklist Smp#:	17
Client ID:	6MW2407				
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\20180404-12978.b\XSMP1645.D
Lims ID: 280-107941-B-5
Client ID: 6MW2407
Sample Type: Client
Inject. Date: 04-Apr-2018 21:01:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-017
Misc. Info.: 280-107941-B-5
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 21:24:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	53.4	106.78
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	55.7	111.43
$ 62 Toluene-d8 (Surr)	50.0	50.9	101.86
$ 86 4-Bromofluorobenzene (Surr)	50.0	51.0	102.10

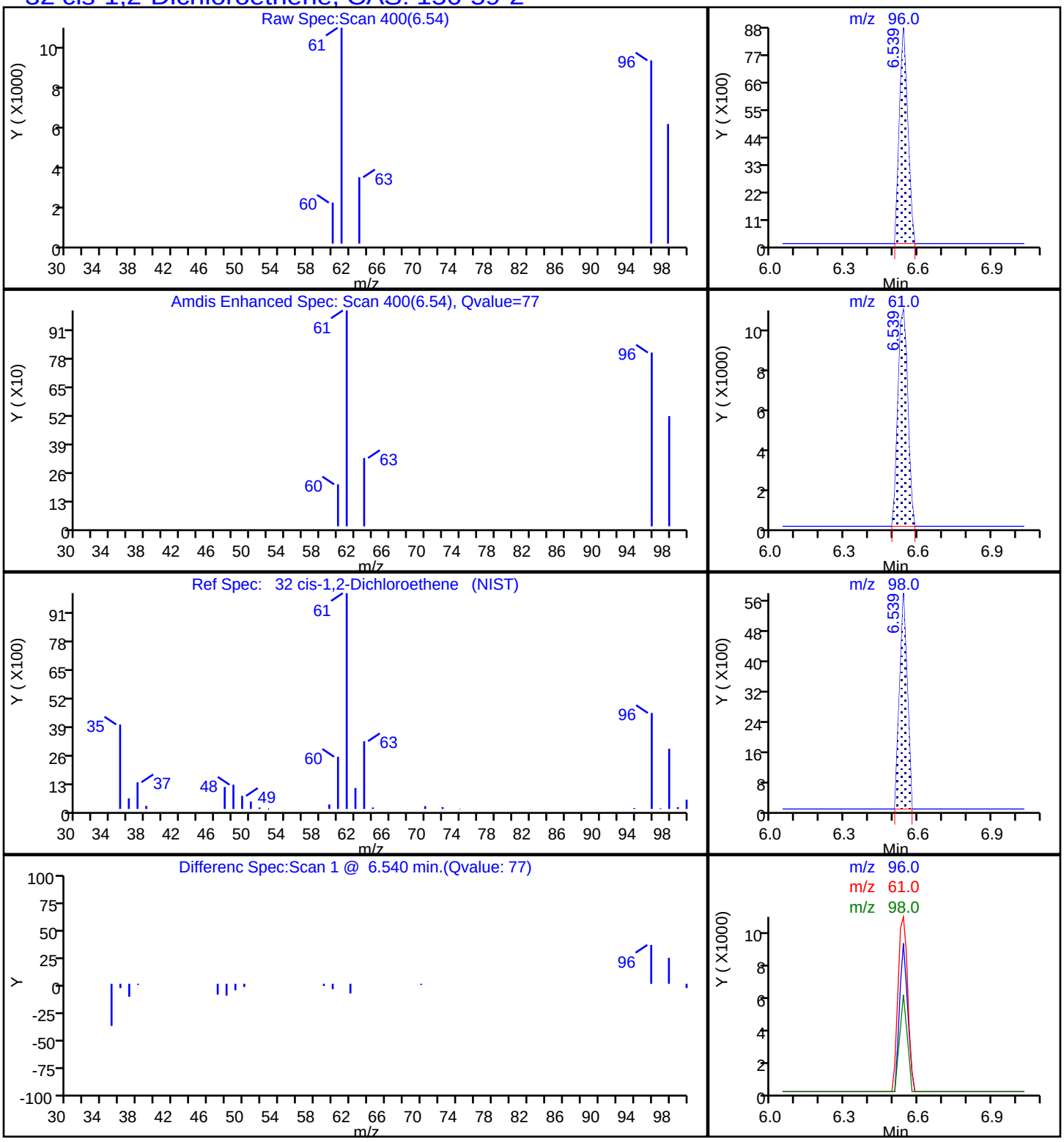
Report Date: 05-Apr-2018 16:44:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1645.D

Injection Date:	04-Apr-2018 21:01:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-5	Lab Sample ID:	160-107941-5		
Client ID:	6MW2407				
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



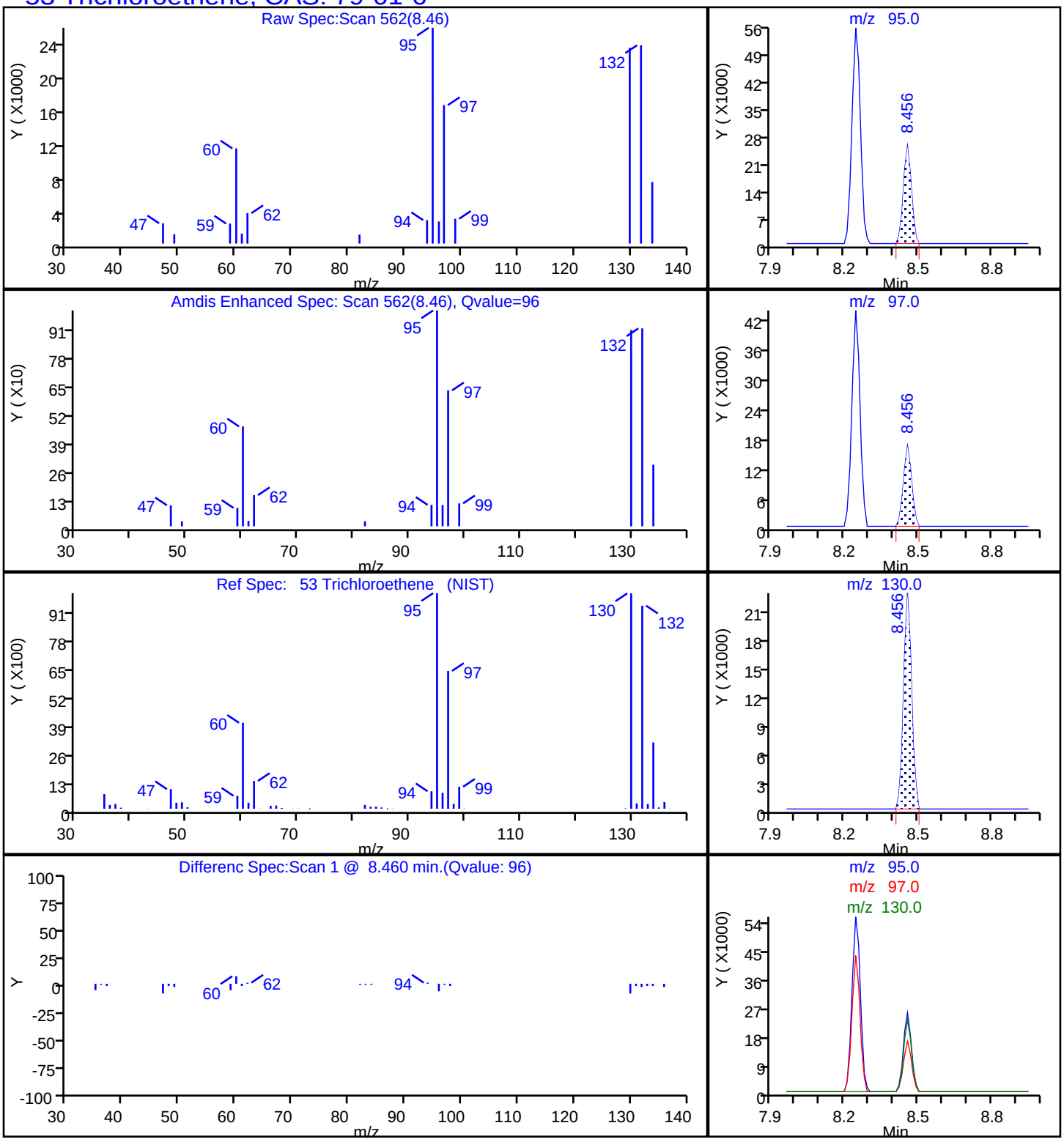
Report Date: 05-Apr-2018 16:44:16 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1645.D

Injection Date:	04-Apr-2018 21:01:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-5	Lab Sample ID:	160-107941-5		
Client ID:	6MW2407				
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		

53 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2507 | Lab Sample ID: 280-107941-6

Matrix: Water | Lab File ID: XSMP1646.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 13:15

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 21:26

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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	3.8	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2507 | Lab Sample ID: 280-107941-6

Matrix: Water | Lab File ID: XSMP1646.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 13:15

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 21:26

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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	1.2	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	15		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)	96		85-114
1868-53-7	Dibromofluoromethane (Surr)	102		80-119
2037-26-5	Toluene-d8 (Surr)	99		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1646.D
Lims ID: 280-107941-B-6
Client ID: 6MW2507
Sample Type: Client
Inject. Date: 04-Apr-2018 21:26:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-018
Misc. Info.: 280-107941-B-6
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 21:48:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62	2.197	2.197	0.000	98	200372	15.0	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.907				ND	
9 1,1-Dichloroethene	96		3.593				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.634				ND	
19 trans-1,2-Dichloroethene	96		4.776				ND	
22 Methyl tert-butyl ether	73		5.001				ND	
28 1,1-Dichloroethane	63		5.747				ND	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	81	38523	3.83	
33 2,2-Dichloropropane	77		6.682				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.084				ND	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.012	93	339254	51.0	
40 1,1,1-Trichloroethane	97		7.190				ND	
42 1,1-Dichloropropene	75		7.356				ND	
43 2-Butanone (MEK)	43		7.380				ND	
44 Benzene	78		7.687				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	99	358320	52.7	
49 1,2-Dichloroethane	62		7.959				ND	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1727923	50.0	
53 Trichloroethene	95	8.456	8.456	0.000	92	12230	1.21	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.119				ND	
57 Dichlorobromomethane	83		9.214				ND	
61 cis-1,3-Dichloropropene	75		10.007				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1623583	49.3	
63 Toluene	92		10.302				ND	
65 Tetrachloroethene	164		10.752				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.788				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.427				ND	
74 2-Hexanone	43		11.711				ND	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	89	1034971	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.030				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.598				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.669				ND	
85 Isopropylbenzene	105		12.906				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	84	518531	48.0	
87 Bromobenzene	156		13.261				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.474				ND	
92 1,2,3-Trichloropropane	110		13.485				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.769				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.053				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	96	470781	50.0	
103 n-Butylbenzene	134		14.420				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.260				ND	
110 Naphthalene	128		16.101				ND	
111 1,2,3-Trichlorobenzene	180		16.254				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

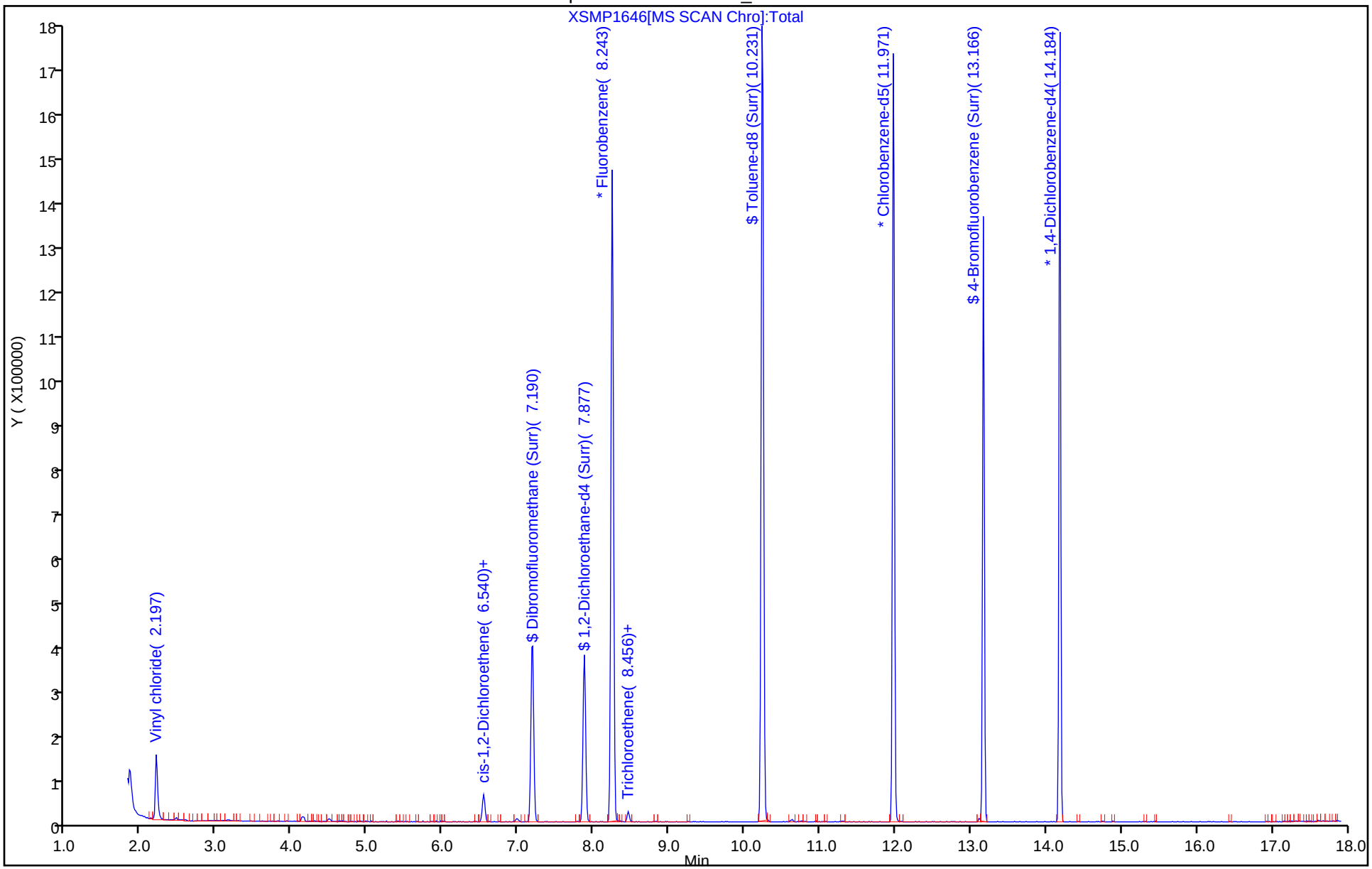
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00085	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:44:17 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1646.D

Injection Date:	04-Apr-2018 21:26:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-107941-B-6	Lab Sample ID:	160-107941-6	Worklist Smp#:	18
Client ID:	6MW2507				
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\20180404-12978.b\XSMP1646.D
Lims ID: 280-107941-B-6
Client ID: 6MW2507
Sample Type: Client
Inject. Date: 04-Apr-2018 21:26:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-018
Misc. Info.: 280-107941-B-6
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 21:48:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	51.0	101.95
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	52.7	105.45
$ 62 Toluene-d8 (Surr)	50.0	49.3	98.56
$ 86 4-Bromofluorobenzene (Surr)	50.0	48.0	95.95

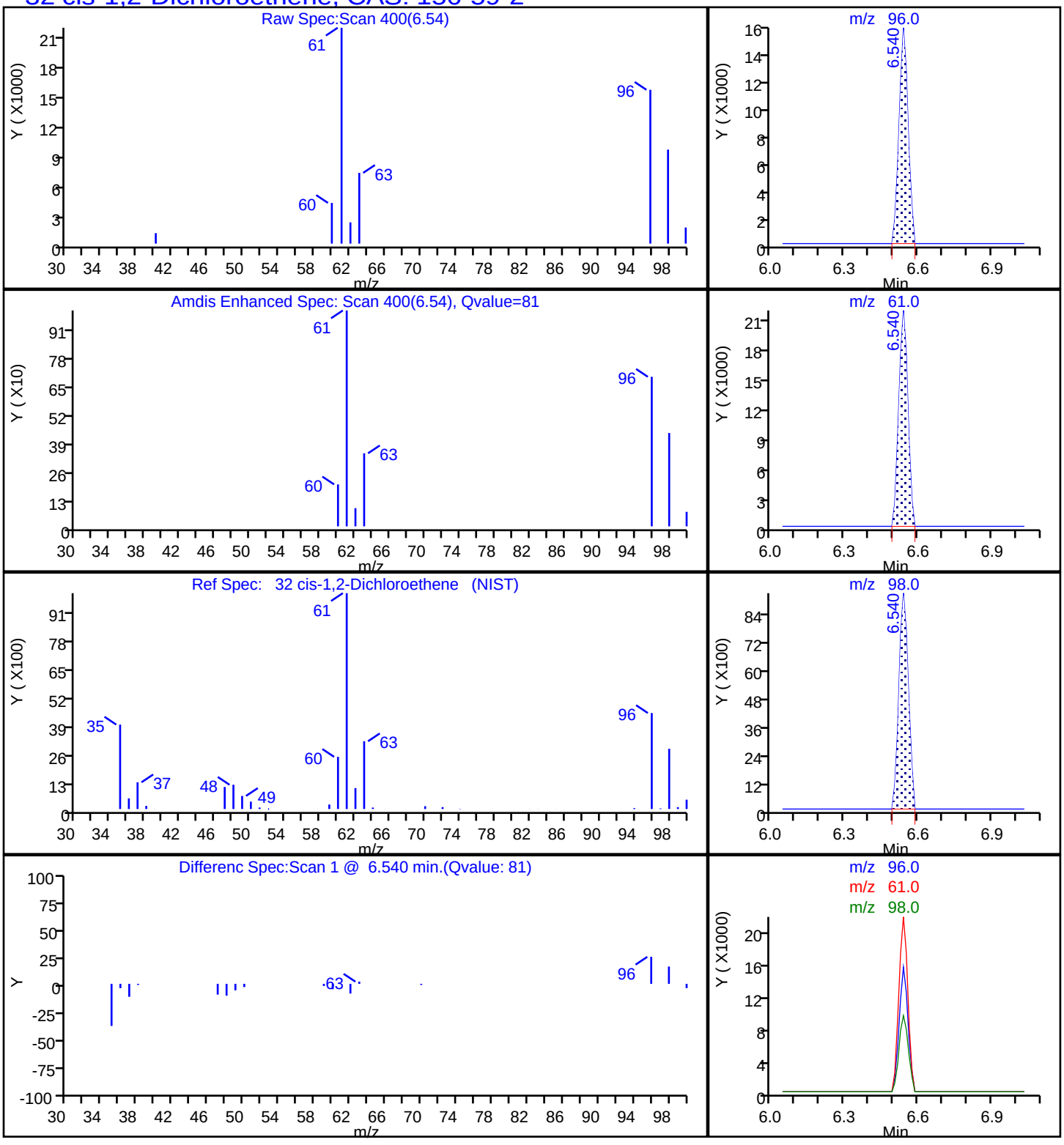
Report Date: 05-Apr-2018 16:44:18 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1646.D

Injection Date:	04-Apr-2018 21:26:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-6	Lab Sample ID:	160-107941-6		
Client ID:	6MW2507				
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



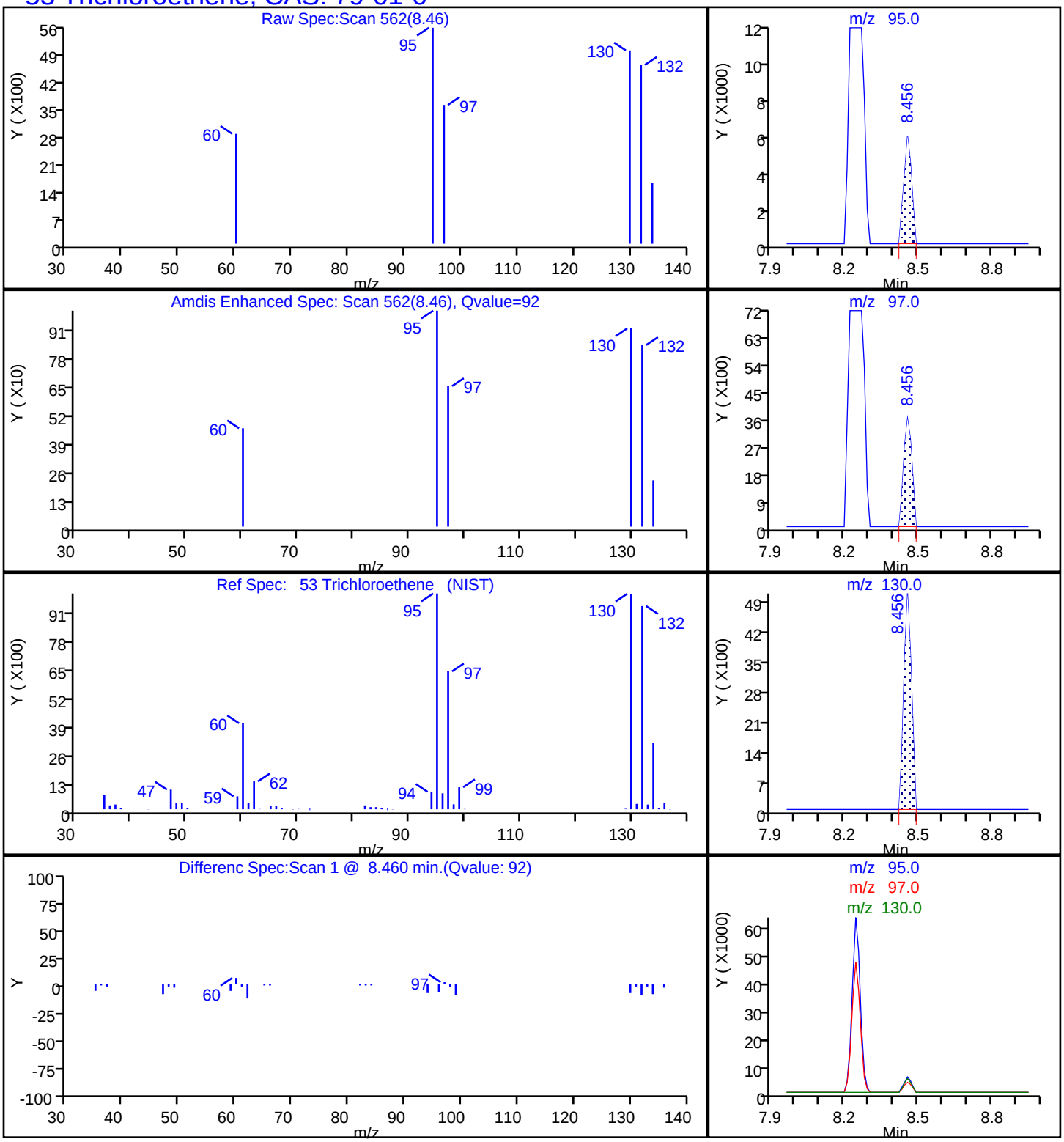
Report Date: 05-Apr-2018 16:44:18 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1646.D

Injection Date:	04-Apr-2018 21:26:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-6	Lab Sample ID:	160-107941-6		
Client ID:	6MW2507				
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		

53 Trichloroethene, CAS: 79-01-6



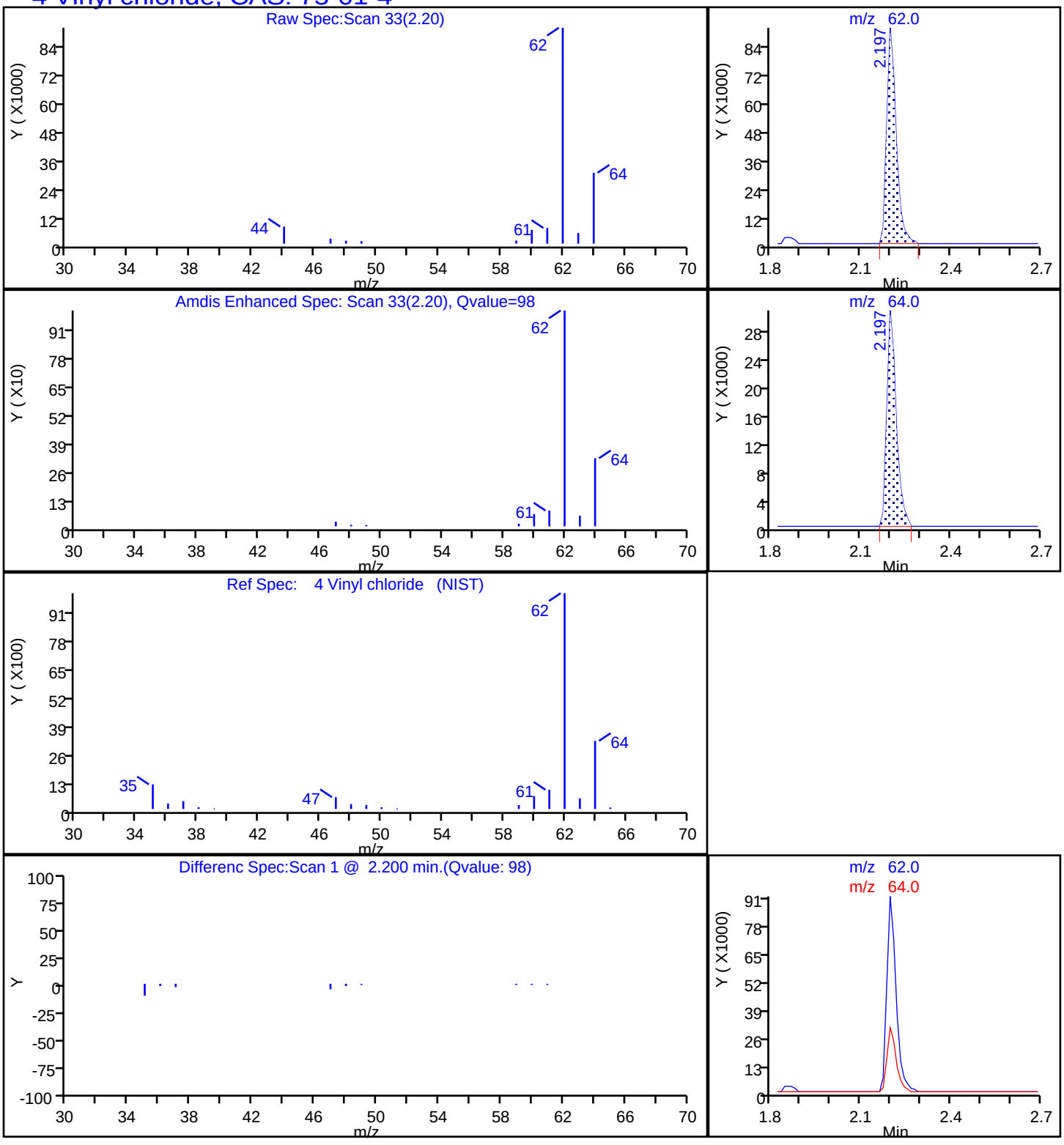
Report Date: 05-Apr-2018 16:44:18 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1646.D

Injection Date:	04-Apr-2018 21:26:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-6	Lab Sample ID:	160-107941-6		
Client ID:	6MW2507				
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.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2607 | Lab Sample ID: 280-107941-7

Matrix: Water | Lab File ID: XSMP1647.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 13:55

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 21:51

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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	J	5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2607 | Lab Sample ID: 280-107941-7

Matrix: Water | Lab File ID: XSMP1647.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 13:55

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 21:51

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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	0.43	J M	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)	98		85-114
1868-53-7	Dibromofluoromethane (Surr)	99		80-119
2037-26-5	Toluene-d8 (Surr)	96		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1647.D
Lims ID: 280-107941-B-7
Client ID: 6MW2607
Sample Type: Client
Inject. Date: 04-Apr-2018 21:51:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-019
Misc. Info.: 280-107941-B-7
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 05-Apr-2018 14:21:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62	2.197	2.197	0.000	1	5445	0.4304	a
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.907				ND	
9 1,1-Dichloroethene	96		3.593				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.634				ND	
19 trans-1,2-Dichloroethene	96		4.776				ND	
22 Methyl tert-butyl ether	73		5.001				ND	
28 1,1-Dichloroethane	63		5.747				ND	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	78	9851	1.03	
33 2,2-Dichloropropane	77		6.682				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.084				ND	
$ 41 Dibromofluoromethane (Surr	113	7.179	7.179	0.001	93	313783	49.7	
40 1,1,1-Trichloroethane	97		7.190				ND	
42 1,1-Dichloropropene	75		7.356				ND	
43 2-Butanone (MEK)	43		7.380				ND	
44 Benzene	78		7.687				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	334704	52.0	
49 1,2-Dichloroethane	62		7.959				ND	
* 51 Fluorobenzene	96	8.244	8.243	0.001	99	1637790	50.0	
53 Trichloroethene	95		8.456				ND	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.119				ND	
57 Dichlorobromomethane	83		9.214				ND	
61 cis-1,3-Dichloropropene	75		10.007				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	94	1484000	47.9	
63 Toluene	92		10.302				ND	
65 Tetrachloroethene	164		10.752				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.788				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.427				ND	
74 2-Hexanone	43		11.711				ND	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	89	973632	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.030				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.598				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.669				ND	
85 Isopropylbenzene	105		12.906				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	84	478661	48.8	
87 Bromobenzene	156		13.261				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.474				ND	
92 1,2,3-Trichloropropane	110		13.485				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.769				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.053				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	427568	50.0	
103 n-Butylbenzene	134		14.420				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.260				ND	
110 Naphthalene	128		16.101				ND	
111 1,2,3-Trichlorobenzene	180		16.254				ND	
S 112 Xylenes, Total	106		16.500				ND	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

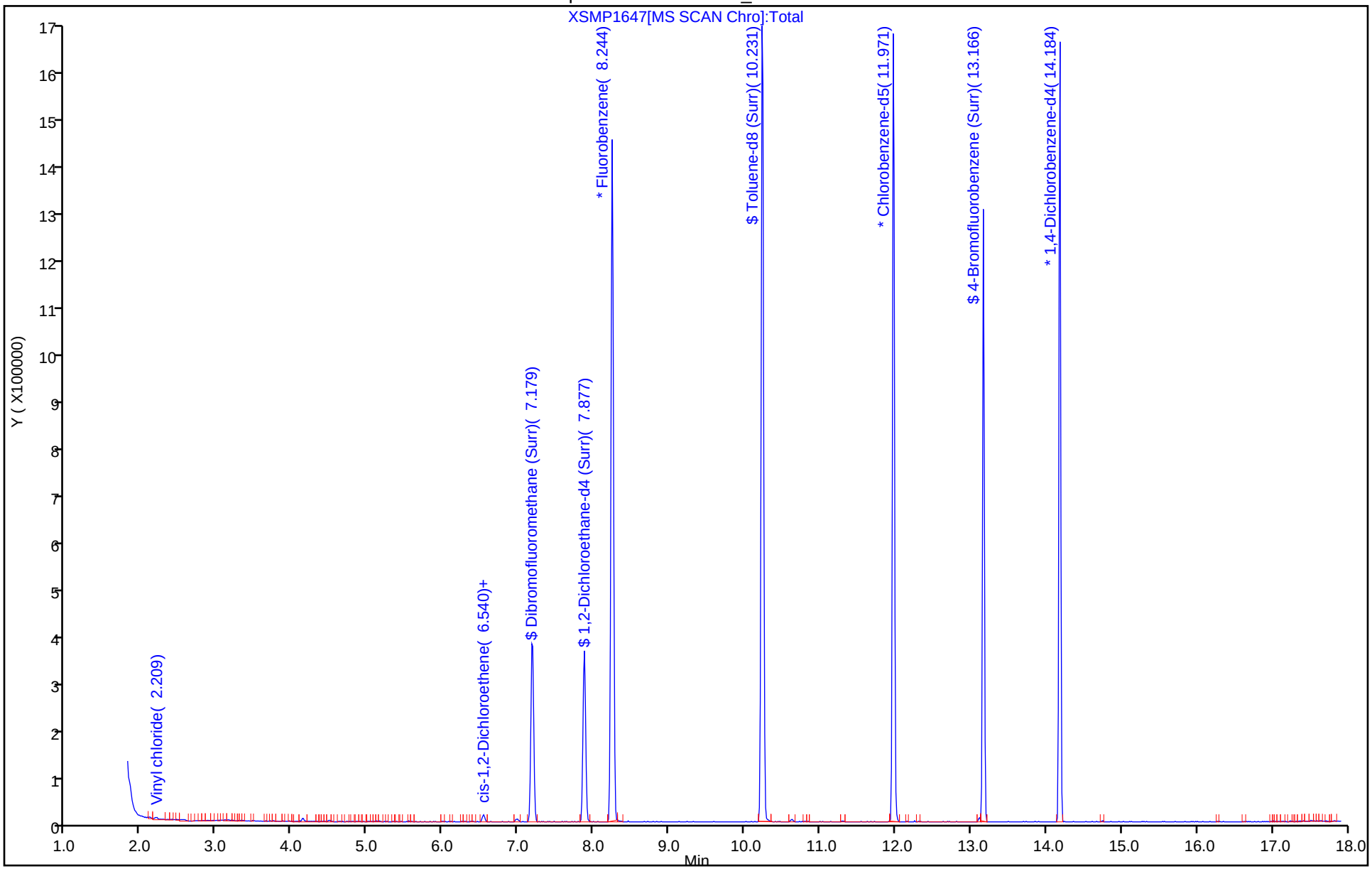
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8260 Surr 25_00085	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:44:19 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1647.D

Injection Date:	04-Apr-2018 21:51:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-107941-B-7	Lab Sample ID:	160-107941-7	Worklist Smp#:	19
Client ID:	6MW2607				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1647.D
Lims ID: 280-107941-B-7
Client ID: 6MW2607
Sample Type: Client
Inject. Date: 04-Apr-2018 21:51:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-019
Misc. Info.: 280-107941-B-7
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 05-Apr-2018 14:21:16

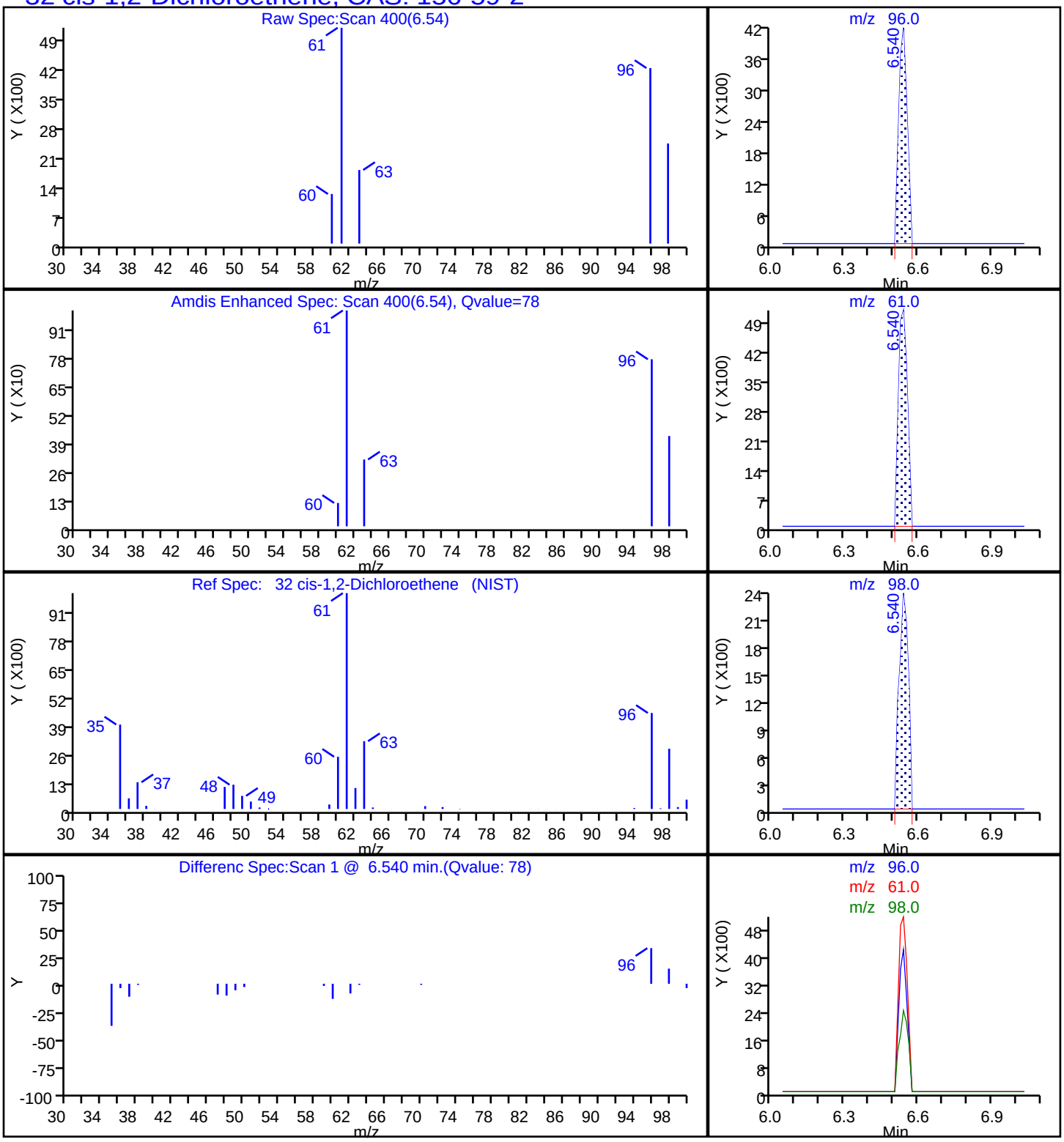
Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.7	99.48
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	52.0	103.92
$ 62 Toluene-d8 (Surr)	50.0	47.9	95.77
$ 86 4-Bromofluorobenzene (Surr)	50.0	48.8	97.52

Report Date: 05-Apr-2018 16:44:19 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File:	\\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1647.D				
Injection Date:	04-Apr-2018 21:51:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-7	Lab Sample ID:	160-107941-7		
Client ID:	6MW2607				
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		

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



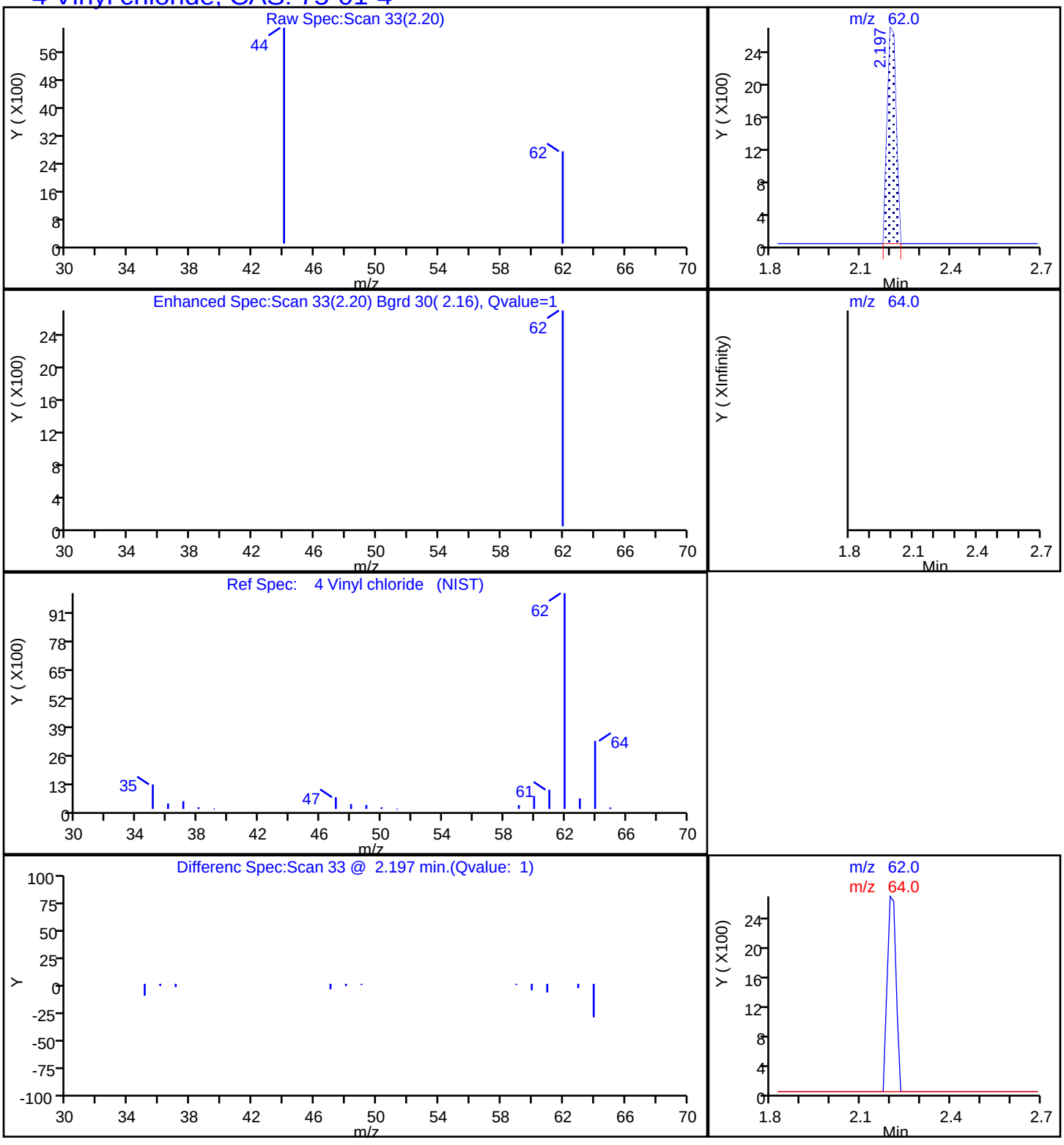
Report Date: 05-Apr-2018 16:44:19 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1647.D

Injection Date:	04-Apr-2018 21:51:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-7	Lab Sample ID:	160-107941-7		
Client ID:	6MW2607				
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		

4 Vinyl chloride, CAS: 75-01-4



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

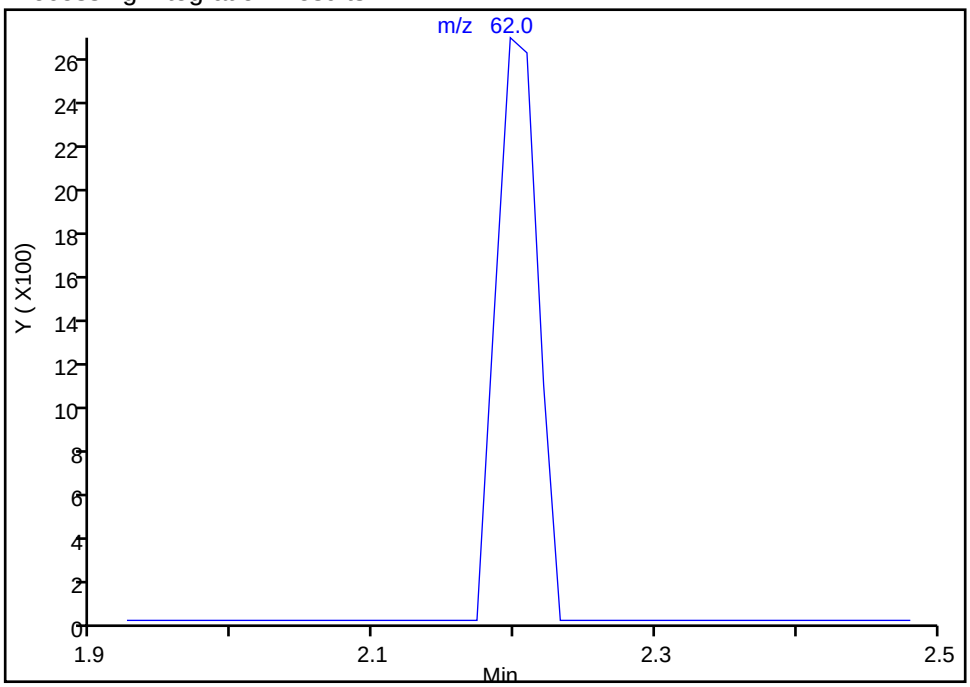
Data File:	\\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1647.D				
Injection Date:	04-Apr-2018 21:51:30	Instrument ID:	VMSX		
Lims ID:	280-107941-B-7	Lab Sample ID:	160-107941-7		
Client ID:	6MW2607				
Operator ID:	JDH	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		
Column:		Detector	MS SCAN		

4 Vinyl chloride, CAS: 75-01-4

Signal: 1

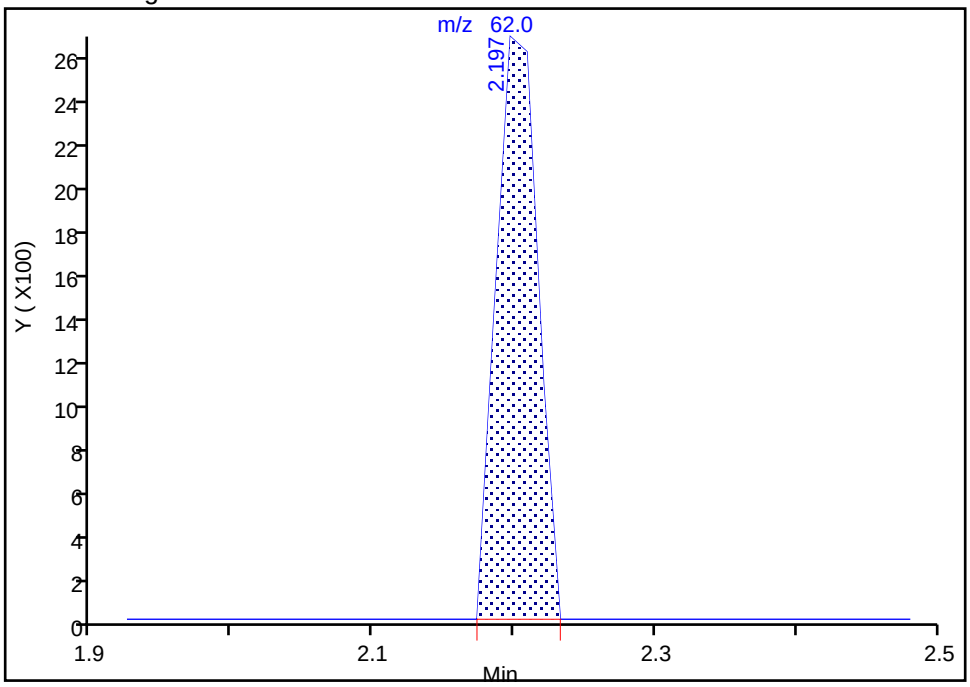
Not Detected
Expected RT: 2.20

Processing Integration Results



Manual Integration Results

RT: 2.20
Area: 5445
Amount: 0.430408
Amount Units: ug/l



Reviewer: hannj, 05-Apr-2018 14:20:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: TB08 | Lab Sample ID: 280-107941-8

Matrix: Water | Lab File ID: XSMP1636.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 14:05

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 17:16

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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.: 280-107941-1

SDG No.:

Client Sample ID: TB08 | Lab Sample ID: 280-107941-8

Matrix: Water | Lab File ID: XSMP1636.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 14:05

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 17:16

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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)	98		81-118
460-00-4	4-Bromofluorobenzene (Surr)	98		85-114
1868-53-7	Dibromofluoromethane (Surr)	99		80-119
2037-26-5	Toluene-d8 (Surr)	98		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1636.D
Lims ID: 280-107941-C-8
Client ID: TB08
Sample Type: Client
Inject. Date: 04-Apr-2018 17:16:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-008
Misc. Info.: 280-107941-C-8
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:44:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62		2.197				ND	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.907				ND	
9 1,1-Dichloroethene	96		3.593				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.634				ND	
19 trans-1,2-Dichloroethene	96		4.776				ND	
22 Methyl tert-butyl ether	73		5.001				ND	
28 1,1-Dichloroethane	63		5.747				ND	
32 cis-1,2-Dichloroethene	96		6.540				ND	
33 2,2-Dichloropropane	77		6.682				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.084				ND	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.012	93	370643	49.6	
40 1,1,1-Trichloroethane	97		7.190				ND	
42 1,1-Dichloropropene	75		7.356				ND	
43 2-Butanone (MEK)	43		7.380				ND	
44 Benzene	78		7.687				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	373214	48.9	
49 1,2-Dichloroethane	62		7.959				ND	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1941832	50.0	
53 Trichloroethene	95		8.456				ND	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.119				ND	
57 Dichlorobromomethane	83		9.214				ND	
61 cis-1,3-Dichloropropene	75		10.007				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1796049	48.8	
63 Toluene	92		10.302				ND	
65 Tetrachloroethene	164		10.752				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.788				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.427				ND	
74 2-Hexanone	43		11.711				ND	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	88	1157054	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.030				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.598				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.669				ND	
85 Isopropylbenzene	105		12.906				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	84	575638	49.0	
87 Bromobenzene	156		13.261				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.474				ND	
92 1,2,3-Trichloropropane	110		13.485				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.769				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.053				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	96	511229	50.0	
103 n-Butylbenzene	134		14.420				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.260				ND	
110 Naphthalene	128		16.101				ND	
111 1,2,3-Trichlorobenzene	180		16.254				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

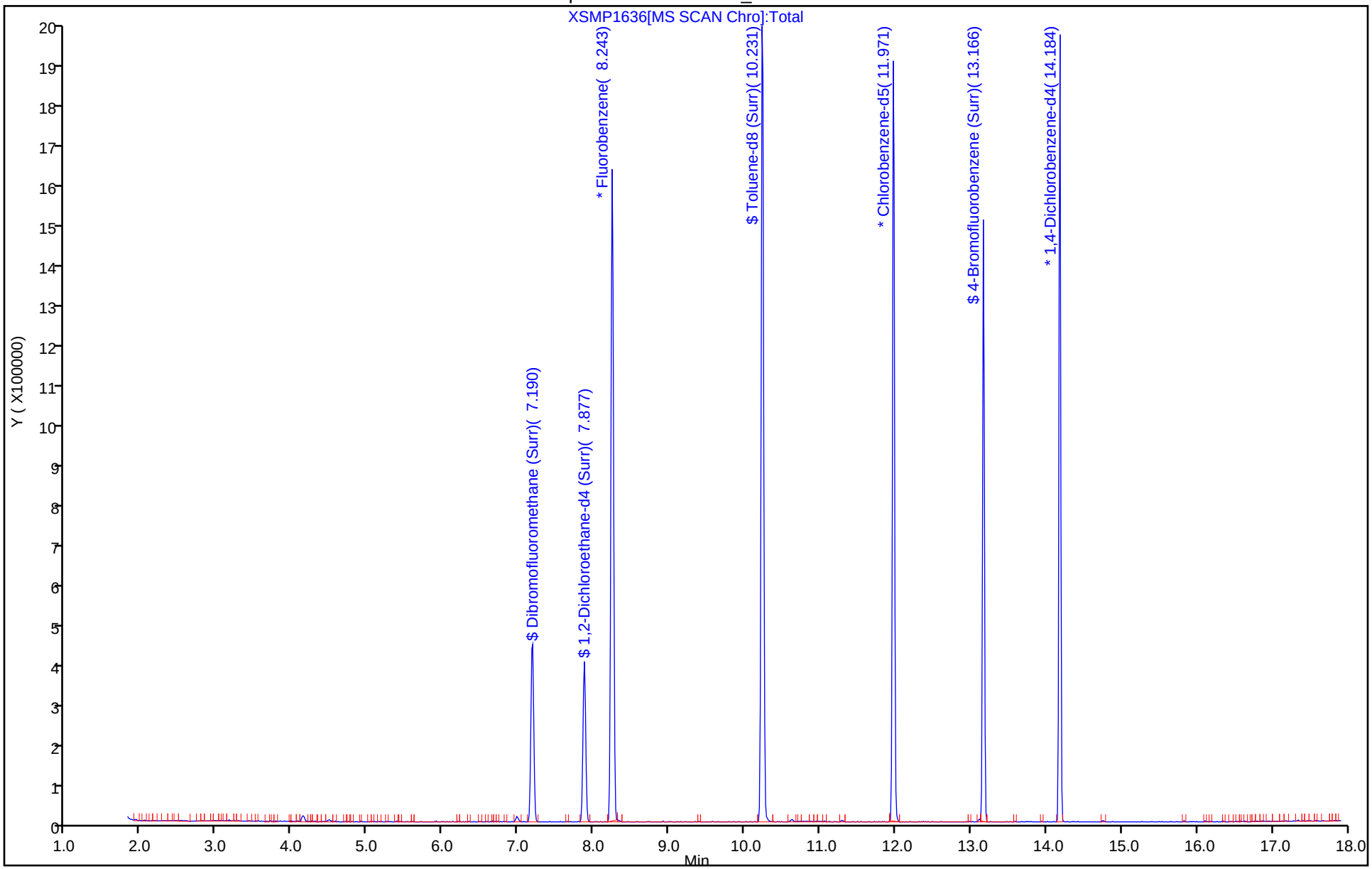
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00085	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:44:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1636.D

Injection Date:	04-Apr-2018 17:16:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-107941-C-8	Lab Sample ID:	160-107941-8	Worklist Smp#:	8
Client ID:	TB08				
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\20180404-12978.b\XSMP1636.D
Lims ID: 280-107941-C-8
Client ID: TB08
Sample Type: Client
Inject. Date: 04-Apr-2018 17:16:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-008
Misc. Info.: 280-107941-C-8
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:44:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.6	99.11
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	48.9	97.73
$ 62 Toluene-d8 (Surr)	50.0	48.8	97.53
$ 86 4-Bromofluorobenzene (Surr)	50.0	49.0	98.09

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: FB04 | Lab Sample ID: 280-107941-9

Matrix: Water | Lab File ID: XSMP1637.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 17:41

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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.: 280-107941-1

SDG No.:

Client Sample ID: FB04 | Lab Sample ID: 280-107941-9

Matrix: Water | Lab File ID: XSMP1637.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 17:41

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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)	99		81-118
460-00-4	4-Bromofluorobenzene (Surr)	100		85-114
1868-53-7	Dibromofluoromethane (Surr)	100		80-119
2037-26-5	Toluene-d8 (Surr)	100		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1637.D
Lims ID: 280-107941-B-9
Client ID: FB04
Sample Type: Client
Inject. Date: 04-Apr-2018 17:41:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-009
Misc. Info.: 280-107941-B-9
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:44:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877				ND	
3 Chloromethane	50		2.090				ND	
4 Vinyl chloride	62		2.197				ND	
5 Bromomethane	94		2.576				ND	
6 Chloroethane	64		2.741				ND	
7 Trichlorofluoromethane	101		2.907				ND	
9 1,1-Dichloroethene	96		3.593				ND	
10 Carbon disulfide	76		3.605				ND	
17 Methylene Chloride	84		4.516				ND	
18 Acetone	43		4.634				ND	
19 trans-1,2-Dichloroethene	96		4.776				ND	
22 Methyl tert-butyl ether	73		5.001				ND	
28 1,1-Dichloroethane	63		5.747				ND	
32 cis-1,2-Dichloroethene	96		6.540				ND	
33 2,2-Dichloropropane	77		6.682				ND	
35 Chlorobromomethane	128		6.812				ND	
36 Chloroform	83		6.942				ND	
37 Carbon tetrachloride	117		7.084				ND	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.012	93	370848	50.1	
40 1,1,1-Trichloroethane	97		7.190				ND	
42 1,1-Dichloropropene	75		7.356				ND	
43 2-Butanone (MEK)	43		7.380				ND	
44 Benzene	78		7.687				ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	372925	49.4	
49 1,2-Dichloroethane	62		7.959				ND	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1920245	50.0	
53 Trichloroethene	95		8.456				ND	
55 Dibromomethane	93		8.989				ND	
56 1,2-Dichloropropane	63		9.119				ND	
57 Dichlorobromomethane	83		9.214				ND	
61 cis-1,3-Dichloropropene	75		10.007				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1789013	49.9	
63 Toluene	92		10.302				ND	
65 Tetrachloroethene	164		10.752				ND	
66 4-Methyl-2-pentanone (MIBK	43		10.788				ND	
67 trans-1,3-Dichloropropene	75		10.823				ND	
68 1,1,2-Trichloroethane	83		11.001				ND	
70 Chlorodibromomethane	129		11.190				ND	
71 1,3-Dichloropropane	76		11.296				ND	
72 Ethylene Dibromide	107		11.427				ND	
74 2-Hexanone	43		11.711				ND	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	88	1127311	50.0	
77 Chlorobenzene	112		11.995				ND	
78 Ethylbenzene	91		12.030				ND	
79 1,1,1,2-Tetrachloroethane	131		12.066				ND	
80 m-Xylene & p-Xylene	106		12.184				ND	
82 o-Xylene	106		12.598				ND	
83 Styrene	104		12.657				ND	
84 Bromoform	173		12.669				ND	
85 Isopropylbenzene	105		12.906				ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	84	576161	50.2	
87 Bromobenzene	156		13.261				ND	
88 N-Propylbenzene	91		13.296				ND	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	
90 2-Chlorotoluene	91		13.438				ND	
91 1,3,5-Trimethylbenzene	105		13.474				ND	
92 1,2,3-Trichloropropane	110		13.485				ND	
95 4-Chlorotoluene	91		13.592				ND	
96 tert-Butylbenzene	119		13.769				ND	
97 1,2,4-Trimethylbenzene	105		13.829				ND	
98 sec-Butylbenzene	105		13.923				ND	
99 4-Isopropyltoluene	119		14.053				ND	
* 101 1,4-Dichlorobenzene-d4	152	14.183	14.184	-0.001	96	499971	50.0	
103 n-Butylbenzene	134		14.420				ND	
105 1,2-Dibromo-3-Chloropropan	157		15.260				ND	
110 Naphthalene	128		16.101				ND	
111 1,2,3-Trichlorobenzene	180		16.254				ND	
S 112 Xylenes, Total	106		16.500				ND	

Reagents:

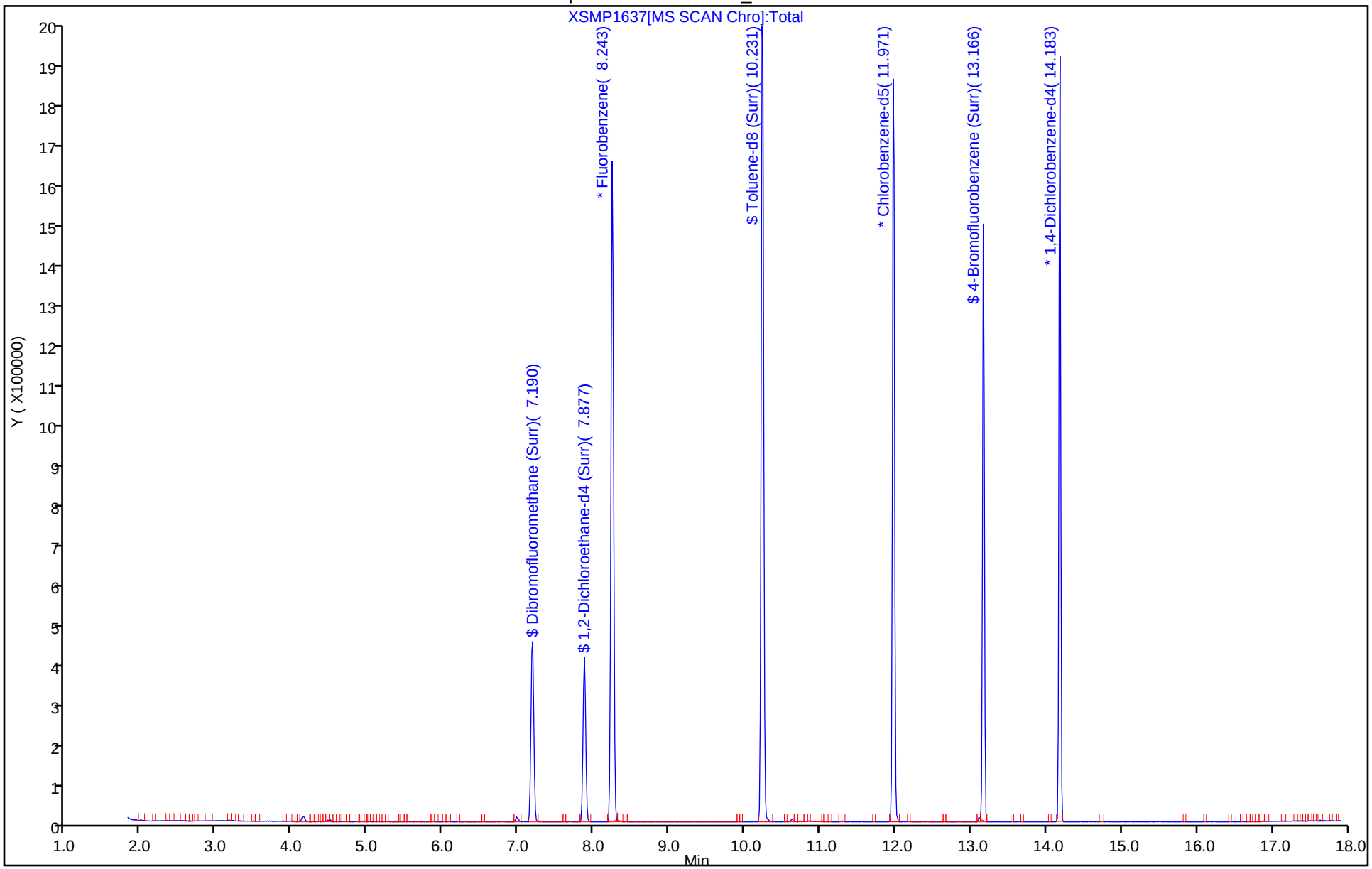
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00085	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:44:08 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1637.D

Injection Date:	04-Apr-2018 17:41:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-107941-B-9	Lab Sample ID:	160-107941-9	Worklist Smp#:	9
Client ID:	FB04				
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\20180404-12978.b\XSMP1637.D
Lims ID: 280-107941-B-9
Client ID: FB04
Sample Type: Client
Inject. Date: 04-Apr-2018 17:41:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-009
Misc. Info.: 280-107941-B-9
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:44:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.1	100.28
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	49.4	98.75
$ 62 Toluene-d8 (Surr)	50.0	49.9	99.71
$ 86 4-Bromofluorobenzene (Surr)	50.0	50.2	100.38

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

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-358742/3	XICL1618.D
Level 2	IC 160-358742/4	XICL1619.D
Level 3	IC 160-358742/5	XICL1620.D
Level 4	IC 160-358742/6	XICL1621.D
Level 5	IC 160-358742/7	XICL1622.D
Level 6	ICIS 160-358742/8	XICL1623.D
Level 7	IC 160-358742/9	XICL1624.D
Level 8	IC 160-358742/10	XICL1625.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	+++++ 0.3375	+++++ 0.2861	0.3742 0.2754	0.3461	0.3361	Ave		0.3259			0.1000	11.6		15.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 0.1429	+++++ 0.1330	0.1381 0.1244	0.1364	0.1292	Ave		0.1340			0.0100	4.9		15.0			
Chloromethane	+++++ 0.3555	+++++ 0.3509	0.4132 0.3334	0.3703	0.3583	Ave		0.3636			0.1000	7.5		15.0			
Vinyl chloride	0.3979 0.3670	0.4312 0.3543	0.4400 0.3234	0.3929	0.3831	Ave		0.3862			0.1000	10.0		15.0			
Butadiene	+++++ 0.1861	+++++ 0.1751	0.2232 0.1562	0.1972	0.1963	Ave		0.1890			0.0100	12.0		15.0			
Bromomethane	+++++ 0.1601	+++++ 0.1590	0.1852 0.1548	0.1681	0.1678	Ave		0.1658			0.1000	6.5		15.0			
Chloroethane	+++++ 0.1226	+++++ 0.1153	0.1802 0.1329	0.1455	0.1435	Lin1	0.2372	0.1248			0.1000				0.9940		0.9900
Trichlorofluoromethane	+++++ 0.3505	+++++ 0.3480	0.3986 0.3356	0.3676	0.3570	Ave		0.3595			0.1000	6.1		15.0			
Dichlorofluoromethane	+++++ 0.3586	+++++ 0.3543	0.4427 0.3414	0.3880	0.3787	Ave		0.3773			0.0100	9.6		15.0			
Ethyl ether	+++++ 0.1254	+++++ 0.1254	0.1251 0.1239	0.1204	0.1187	Ave		0.1232			0.0100	2.3		15.0			
1,1-Dichloroethene	+++++ 0.2626	+++++ 0.2711	0.2873 0.2602	0.2634	0.2581	Ave		0.2671			0.1000	4.1		15.0			
Ethanol	+++++ 0.0011	+++++ 0.0012	0.0013 0.0012	0.0009	0.0011	Ave		0.0011		*	0.0100	13.0		15.0			
Carbon disulfide	+++++ 0.9125	+++++ 0.9362	0.9590 0.8786	0.8812	0.8881	Ave		0.9093			0.1000	3.6		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.1880	+++++ 0.1924	0.2159 0.1844	0.1885	0.1826	Ave		0.1920			0.1000	6.4		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.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

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	+++++ 0.3469	+++++ 0.3616	0.3772 0.3477	0.3391	0.3421	Ave		0.3524			0.0100	4.1		15.0			
Acrolein	+++++ 0.0179	+++++ 0.0179	0.0207 0.0186	0.0162	0.0176	Ave		0.0182			0.0010	8.1		15.0			
3-Chloro-1-propene	+++++ 0.2259	+++++ 0.2296	0.2562 0.2101	0.2260	0.2251	Ave		0.2288			0.0100	6.6		15.0			
Isopropyl alcohol	+++++ 0.0060	0.0143 0.0062	0.0085 0.0066	0.0049	0.0058	Qua	0.0903	0.0055	0.0000005	*	0.0100				1.0000		0.9900
Methylene Chloride	+++++ 0.2422	+++++ 0.2480	0.2653 0.2406	0.2403	0.2413	Ave		0.2463			0.1000	4.0		15.0			
Acetone	+++++ 0.0273	+++++ 0.0266	0.0243 0.0267	0.0262	0.0262	Ave		0.0262		*	0.1000	3.8		15.0			
trans-1,2-Dichloroethene	+++++ 0.2796	0.2947 0.2929	0.3289 0.2808	0.2786	0.2743	Ave		0.2900			0.1000	6.5		15.0			
Methyl acetate	+++++ 0.0074	+++++ 0.0076	0.0073 0.0078	0.0062	0.0068	Ave		0.0072		*	0.1000	8.3		15.0			
Hexane	+++++ 0.0987	+++++ 0.1012	0.0936 0.0975	0.0963	0.0956	Ave		0.0971			0.0100	2.7		15.0			
Methyl tert-butyl ether	+++++ 0.4448	+++++ 0.4407	0.4574 0.4437	0.4301	0.4289	Ave		0.4409			0.1000	2.4		15.0			
2-Methyl-2-propanol	+++++ 0.0113	+++++ 0.0111	0.0152 0.0123	0.0097	0.0103	Qua	0.1289	0.0100	0.0000012	*	0.0100				1.0000		0.9900
Acetonitrile	+++++ 0.0113	+++++ 0.0114	0.0115 0.0115	0.0108	0.0111	Ave		0.0113			0.0010	2.5		15.0			
Isopropyl ether	+++++ 0.7026	+++++ 0.7215	0.7411 0.6863	0.6722	0.6745	Ave		0.6997			0.0100	3.9		15.0			
2-Chloro-1,3-butadiene	+++++ 0.4662	+++++ 0.4847	0.4880 0.4513	0.4545	0.4585	Ave		0.4672			0.0100	3.4		15.0			
1,1-Dichloroethane	+++++ 0.5122	+++++ 0.5244	0.5798 0.4975	0.5096	0.5143	Ave		0.5230			0.2000	5.6		15.0			
Acrylonitrile	+++++ 0.0434	+++++ 0.0435	0.0468 0.0431	0.0428	0.0425	Ave		0.0437			0.0100	3.6		15.0			
Tert-butyl ethyl ether	+++++ 0.7003	+++++ 0.7247	0.7225 0.7097	0.6502	0.6528	Ave		0.6934			0.0100	4.9		15.0			
Vinyl acetate	+++++ 0.3171	+++++ 0.2974	0.3175 0.2943	0.2976	0.2994	Ave		0.3039			0.0100	3.5		15.0			
2,2-Dichloropropane	+++++ 0.3278	+++++ 0.3219	0.3579 0.2997	0.3338	0.3217	Ave		0.3271			0.0100	5.8		15.0			
Cyclohexane	+++++ 0.4961	+++++ 0.5111	0.5403 0.4893	0.4846	0.4918	Ave		0.5022			0.1000	4.1		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.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

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	+++++ 0.0895	+++++ 0.0911	0.0928 0.0891	0.0888	0.0883	Ave		0.0900			0.0100	1.9		15.0			
Chloroform	+++++ 0.4316	0.4914 0.4429	0.4939 0.4238	0.4324	0.4319	Ave		0.4497			0.2000	6.6		15.0			
Carbon tetrachloride	+++++ 0.3326	+++++ 0.3513	0.3556 0.3385	0.3277	0.3288	Ave		0.3391			0.1000	3.5		15.0			
Tetrahydrofuran	+++++ 0.0135	+++++ 0.0137	0.0126 0.0144	0.0116	0.0127	Ave		0.0131			0.0010	7.4		15.0			
Ethyl acetate	+++++ 0.0150	+++++ 0.0150	0.0115 0.0152	0.0137	0.0127	Ave		0.0138			0.0100	10.9		15.0			
1,1,1-Trichloroethane	+++++ 0.4173	+++++ 0.4207	0.4531 0.3966	0.4081	0.4139	Ave		0.4183			0.1000	4.6		15.0			
1,1-Dichloropropene	+++++ 0.4028	+++++ 0.4174	0.4470 0.3946	0.3934	0.4006	Ave		0.4093			0.0100	5.0		15.0			
2-Butanone (MEK)	+++++ 0.0440	+++++ 0.0420	0.0465 0.0412	0.0401	0.0421	Ave		0.0427		*	0.1000	5.4		15.0			
Isooctane	+++++ 1.3745	+++++ 1.4025	1.5490 1.2962	1.4018	1.3734	Ave		1.3996			0.0100	5.9		15.0			
Benzene	1.2629 1.1081	1.2731 1.1266	1.2807 1.0420	1.1438	1.1071	Ave		1.1680			0.5000	7.8		15.0			
n-Heptane	+++++ 0.4678	+++++ 0.4511	0.5426 0.3945	0.4945	0.4736	Ave		0.4707			0.0100	10.4		15.0			
Propionitrile	+++++ 0.0166	+++++ 0.0165	0.0174 0.0164	0.0155	0.0162	Ave		0.0164			0.0010	3.9		15.0			
Methacrylonitrile	+++++ 0.0601	+++++ 0.0569	0.0687 0.0530	0.0625	0.0605	Ave		0.0603			0.0100	8.8		15.0			
Tert-amyl methyl ether	+++++ 0.5121	+++++ 0.5254	0.5355 0.5338	0.4817	0.4842	Ave		0.5121			0.0100	4.7		15.0			
1,2-Dichloroethane	+++++ 0.2524	0.2832 0.2500	0.2815 0.2407	0.2591	0.2515	Ave		0.2598			0.1000	6.3		15.0			
Isobutyl alcohol	+++++ 0.0026	+++++ 0.0026	0.0034 0.0028	0.0021	0.0023	LinF		0.0028			0.0010				0.9970		0.9900
Methylcyclohexane	+++++ 0.4941	+++++ 0.4972	0.5570 0.4573	0.4957	0.4913	Ave		0.4988			0.1000	6.5		15.0			
Trichloroethene	+++++ 0.2794	0.3305 0.2861	0.3198 0.2706	0.2755	0.2814	Ave		0.2919			0.2000	8.0		15.0			
n-Butanol	+++++ 0.0035	0.0088 0.0036	0.0048 0.0042	0.0027	0.0030	Qua	0.1327	0.0030	0.0000002	*	0.0100				1.0000		0.9900
Dibromomethane	+++++ 0.0988	+++++ 0.1001	0.1043 0.0993	0.0941	0.0940	Ave		0.0984			0.0100	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.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

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								
1,2-Dichloropropane	+++++ 0.2627	+++++ 0.2713	0.2743 0.2621	0.2557	0.2530	Ave		0.2632			0.1000	3.2		15.0			
Ethyl acrylate	+++++ 0.1808	+++++ 0.1831	0.1605 0.1886	0.1472	0.1580	Ave		0.1697			0.0100	9.8		15.0			
Bromodichloromethane	+++++ 0.2919	+++++ 0.2996	0.3086 0.2921	0.2702	0.2746	Ave		0.2895			0.2000	5.1		15.0			
Methyl methacrylate	+++++ 0.0976	+++++ 0.0995	0.0891 0.1029	0.0860	0.0882	Ave		0.0939			0.0100	7.5		15.0			
1,4-Dioxane	+++++ 0.0012	+++++ 0.0012	0.0012 0.0012	0.0009	0.0011	Ave		0.0011			0.0010	11.3		15.0			
2-Chloroethyl vinyl ether	+++++ 0.0928	+++++ 0.0968	0.0742 0.0995	0.0763	0.0812	Ave		0.0868			0.0100	12.6		15.0			
cis-1,3-Dichloropropene	+++++ 0.3445	+++++ 0.3601	0.3312 0.3506	0.3103	0.3160	Ave		0.3355			0.2000	5.9		15.0			
Toluene	1.1737 1.1725	1.2458 1.2140	1.2538 1.1736	1.1547	1.1591	Ave		1.1934			0.4000	3.3		15.0			
2-Nitropropane	+++++ 0.0394	+++++ 0.0441	0.0321 0.0496	0.0284	0.0338	Qua	-0.193	0.0394	0.0000268		0.0100				1.0000		0.9900
Tetrachloroethene	+++++ 0.3590	0.3839 0.3725	0.3908 0.3608	0.3548	0.3453	Ave		0.3667			0.2000	4.5		15.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.1609	+++++ 0.1579	0.1545 0.1622	0.1390	0.1421	Ave		0.1528			0.1000	6.5		15.0			
trans-1,3-Dichloropropene	+++++ 0.4550	+++++ 0.4739	0.4274 0.4745	0.4043	0.4196	Ave		0.4424			0.1000	6.7		15.0			
1,1,2-Trichloroethane	+++++ 0.2105	+++++ 0.2166	0.2283 0.2156	0.2036	0.2095	Ave		0.2140			0.1000	3.9		15.0			
Ethyl methacrylate	+++++ 0.3221	+++++ 0.3322	0.2828 0.3506	0.2634	0.2831	Ave		0.3057			0.0100	11.2		15.0			
Dibromochloromethane	+++++ 0.2611	+++++ 0.2704	0.2547 0.2777	0.2234	0.2358	Ave		0.2538			0.1000	8.2		15.0			
1,3-Dichloropropane	+++++ 0.4636	+++++ 0.4716	0.5154 0.4671	0.4652	0.4599	Ave		0.4738			0.0100	4.4		15.0			
1,2-Dibromoethane	+++++ 0.2131	+++++ 0.2183	0.2191 0.2214	0.1983	0.2009	Ave		0.2119			0.1000	4.7		15.0			
n-Butyl acetate	+++++ 0.2854	+++++ 0.2967	0.2691 0.3106	0.2370	0.2487	Ave		0.2746			0.0100	10.3		15.0			
2-Hexanone	+++++ 0.1104	+++++ 0.1102	0.1056 0.1179	0.0978	0.1034	Ave		0.1075			0.1000	6.4		15.0			
1-Chlorohexane	+++++ 0.8338	+++++ 0.8666	0.9249 0.7776	0.8162	0.8194	Ave		0.8397			0.0100	6.0		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.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

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								
Chlorobenzene	+++++ 1.1043	+++++ 1.1223	1.2799 1.0591	1.1060	1.0970	Ave		1.1281			0.5000	6.9		15.0			
Ethylbenzene	2.4656 2.1934	2.7146 2.2102	2.5270 2.0266	2.2431	2.2107	Ave		2.3239			0.1000	9.6		15.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3208	+++++ 0.3321	0.3597 0.3269	0.3141	0.3093	Ave		0.3272			0.0100	5.5		15.0			
m,p-Xylenes	0.8291 0.8195	0.9703 0.8552	0.8734 0.8164	0.8049	0.8069	Ave		0.8470			0.1000	6.5		15.0			
o-Xylene	0.7444 0.7537	0.9382 0.7688	0.8121 0.7537	0.7243	0.7269	Ave		0.7778			0.3000	9.1		15.0			
Styrene	+++++ 1.1680	+++++ 1.2130	1.2201 1.1637	1.0897	1.1109	Ave		1.1609			0.3000	4.5		15.0			
Bromoform	+++++ 0.2816	+++++ 0.2967	0.2816 0.2970	0.2369	0.2549	Ave		0.2748			0.1000	8.8		15.0			
Isopropylbenzene	+++++ 4.7016	+++++ 4.7822	5.0986 4.1055	4.5736	4.6021	Ave		4.6439			0.1000	7.0		15.0			
Bromobenzene	+++++ 0.8591	+++++ 0.8898	0.9715 0.8289	0.8373	0.8258	Ave		0.8687			0.0100	6.4		15.0			
N-Propylbenzene	+++++ 5.6212	+++++ 5.6279	6.3255 4.7043	5.6291	5.6165	Ave		5.5874			0.0100	9.2		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.5619	+++++ 0.5546	0.7409 0.5455	0.5581	0.5466	Ave		0.5846			0.3000	13.1		15.0			
2-Chlorotoluene	+++++ 3.1608	+++++ 3.2095	3.7340 2.8885	3.1152	3.1098	Ave		3.2030			0.0100	8.8		15.0			
1,3,5-Trimethylbenzene	+++++ 3.6348	+++++ 3.6133	4.1235 3.2117	3.6346	3.6145	Ave		3.6387			0.0100	8.0		15.0			
1,2,3-Trichloropropane	+++++ 0.1628	+++++ 0.1548	0.1916 0.1532	0.1642	0.1658	Ave		0.1654			0.0100	8.4		15.0			
Cyclohexanone	+++++ 0.0128	+++++ 0.0130	0.0212 0.0142	0.0111	0.0117	Qua	0.1637	0.0116	0.0000012		0.0010				1.0000		0.9900
trans-1,4-Dichloro-2-butene	+++++ 0.1570	+++++ 0.1577	0.1970 0.1564	0.1501	0.1511	Ave		0.1616			0.0100	10.9		15.0			
4-Chlorotoluene	+++++ 3.1467	+++++ 3.2337	3.6512 2.8883	3.1283	3.1250	Ave		3.1955			0.0100	7.9		15.0			
tert-Butylbenzene	+++++ 3.1281	+++++ 3.1236	3.5791 2.8441	3.1366	3.0510	Ave		3.1438			0.0100	7.6		15.0			
1,2,4-Trimethylbenzene	+++++ 3.5871	+++++ 3.5800	4.0999 3.2078	3.5466	3.5615	Ave		3.5971			0.0100	7.9		15.0			
sec-Butylbenzene	+++++ 4.9604	+++++ 4.9738	5.7344 4.2785	5.0089	4.9169	Ave		4.9788			0.0100	9.3		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.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

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								
p-Isopropyltoluene	+++++ 3.9221	+++++ 3.9396	4.4111 3.4899	3.8426	3.8690	Ave		3.9124			0.0100	7.5		15.0			
1,3-Dichlorobenzene	+++++ 1.6986	+++++ 1.7343	2.0344 1.6284	1.7046	1.6742	Ave		1.7457			0.6000	8.4		15.0			
1,4-Dichlorobenzene	+++++ 1.6330	+++++ 1.6656	2.0771 1.5653	1.6581	1.6145	Ave		1.7023			0.5000	11.0		15.0			
1,2,3-Trimethylbenzene	+++++ 3.2800	+++++ 3.2740	4.0201 2.9679	3.3268	3.2899	Ave		3.3598			0.0100	10.4		15.0			
Benzyl chloride	+++++ 0.1800	+++++ 0.1942	0.1578 0.1986	0.1390	0.1473	Ave		0.1695			0.0100	14.8		15.0			
n-Butylbenzene	+++++ 1.0121	+++++ 1.0401	1.1103 0.9603	0.9723	0.9815	Ave		1.0128			0.0100	5.5		15.0			
1,2-Dichlorobenzene	+++++ 1.3988	+++++ 1.4024	1.7676 1.3421	1.3935	1.3867	Ave		1.4485			0.4000	10.9		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0670	+++++ 0.0687	0.0818 0.0740	0.0585	0.0608	Ave		0.0685			0.0500	12.6		15.0			
n-Nonyl Aldehyde	+++++ 0.3496	+++++ 0.3797	0.4677 0.3745	0.2690	0.2848	QuaF		0.3597	0.0000798		0.0100				0.9990		0.9900
1,3,5-Trichlorobenzene	+++++ 1.1457	+++++ 1.1835	1.4793 1.1014	1.2266	1.1612	Ave		1.2163			0.0100	11.1		15.0			
Hexachlorobutadiene	+++++ 0.6274	+++++ 0.6145	0.8299 0.5806	0.6784	0.6324	Ave		0.6605			0.0100	13.4		15.0			
1,2,4-Trichlorobenzene	+++++ 0.8786	+++++ 0.8505	1.2019 0.7979	0.8875	0.8566	Lin1	1.6363	0.8072			0.2000				0.9980		0.9900
Naphthalene	+++++ 1.4036	+++++ 1.3300	1.9204 1.2817	1.3341	1.3220	Lin1	2.2667	1.2865			0.0100				0.9980		0.9900
1,2,3-Trichlorobenzene	+++++ 0.7004	+++++ 0.6677	0.9997 0.6078	0.7138	0.6869	Lin1	1.6887	0.6210			0.0100				0.9970		0.9900
Dibromofluoromethane (Surr)	+++++ 0.1942	+++++ 0.1899	0.1889 0.1988	0.1936	0.1901	Ave		0.1926			0.0100	1.9		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.1986	+++++ 0.1865	0.2061 0.1918	0.1948	0.2022	Ave		0.1967			0.0100	3.6		15.0			
Toluene-d8 (Surr)	+++++ 1.5952	+++++ 1.5696	1.6289 1.6026	1.5622	1.5911	Ave		1.5916			0.0100	1.5		15.0			
4-Bromofluorobenzene (Surr)	+++++ 1.1806	+++++ 1.1605	1.1461 1.1507	1.1231	1.1269	Ave		1.1480			0.0100	1.9		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.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-358742/3	XICL1618.D
Level 2	IC 160-358742/4	XICL1619.D
Level 3	IC 160-358742/5	XICL1620.D
Level 4	IC 160-358742/6	XICL1621.D
Level 5	IC 160-358742/7	XICL1622.D
Level 6	ICIS 160-358742/8	XICL1623.D
Level 7	IC 160-358742/9	XICL1624.D
Level 8	IC 160-358742/10	XICL1625.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	+++++ 651838	+++++ 1130372	68366 2170179	125865	250968	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	FB	Ave	+++++ 276108	+++++ 525454	25227 980526	49617	96501	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chloromethane	FB	Ave	+++++ 686736	+++++ 1386059	75487 2627144	134682	267582	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Vinyl chloride	FB	Ave	14453 708871	38951 1399461	80383 2547881	142919	286068	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Butadiene	FB	Ave	+++++ 359562	+++++ 691769	40770 1231056	71737	146566	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromomethane	FB	Ave	+++++ 309312	+++++ 628094	33832 1219949	61133	125314	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chloroethane	FB	Lin1	+++++ 236750	+++++ 455632	32928 1046950	52913	107164	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Trichlorofluoromethane	FB	Ave	+++++ 677002	+++++ 1374657	72813 2644088	133706	266562	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dichlorofluoromethane	FB	Ave	+++++ 692748	+++++ 1399629	80885 2690179	141125	282771	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl ether	FB	Ave	+++++ 242253	+++++ 495189	22861 976479	43797	88639	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1-Dichloroethene	FB	Ave	+++++ 507169	+++++ 1070959	52487 2050561	95799	192726	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethanol	FB	Ave	+++++ 82234	+++++ 187866	9602 379137	13082	31493	+++++ 2000	+++++ 4000	200 8000	400	800
Carbon disulfide	FB	Ave	+++++ 1762631	+++++ 3698516	175209 6923209	320494	663169	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 363129	+++++ 760164	39444 1453141	68553	136382	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Iodomethane	FB	Ave	+++++ 670140	+++++ 1428347	68917 2740065	123344	255458	+++++ 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.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

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	+++++ 173228	+++++ 354240	18936 732066	29549	65711	+++++ 250	+++++ 500	25.0 1000	50.0	100
3-Chloro-1-propene	FB	Ave	+++++ 436332	+++++ 907038	46807 1655760	82192	168115	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isopropyl alcohol	FB	Qua	+++++ 115638	12884 244136	15442 523767	17718	43135	+++++ 500	25.0 1000	50.0 2000	100	200
Methylene Chloride	FB	Ave	+++++ 467782	+++++ 979566	48468 1895672	87397	180219	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Acetone	FB	Ave	+++++ 52727	+++++ 104937	4448 210188	9547	19593	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 540075	26619 1156888	60082 2212387	101331	204802	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
Methyl acetate	FB	Ave	+++++ 71807	+++++ 149504	6647 305742	11195	25388	+++++ 250	+++++ 500	25.0 1000	50.0	100
Hexane	FB	Ave	+++++ 190555	+++++ 399689	17097 767892	35029	71422	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Methyl tert-butyl ether	FB	Ave	+++++ 859235	+++++ 1741074	83556 3495726	156441	320247	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Methyl-2-propanol	FB	Qua	+++++ 217521	+++++ 438835	27744 971678	35433	77121	+++++ 500	+++++ 1000	50.0 2000	100	200
Acetonitrile	FB	Ave	+++++ 217533	+++++ 450979	20944 909331	39272	82617	+++++ 500	+++++ 1000	50.0 2000	100	200
Isopropyl ether	FB	Ave	+++++ 1357060	+++++ 2850360	135396 5407709	244487	503665	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 900552	+++++ 1914820	89158 3555671	165292	342416	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	+++++ 989452	+++++ 2071543	105920 3920115	185344	384070	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Acrylonitrile	FB	Ave	+++++ 838361	+++++ 1717319	85478 3399920	155527	317012	+++++ 500	+++++ 1000	50.0 2000	100	200
Tert-butyl ethyl ether	FB	Ave	+++++ 1352615	+++++ 2862944	131998 5592367	236493	487460	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Vinyl acetate	FB	Ave	+++++ 612412	+++++ 1174902	58013 2319018	108239	223600	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 633196	+++++ 1271587	65380 2361373	121410	240227	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Cyclohexane	FB	Ave	+++++ 958233	+++++ 2019059	98711 3855439	176271	367215	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromochloromethane	FB	Ave	+++++ 172834	+++++ 360066	16960 702292	32314	65935	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chloroform	FB	Ave	+++++ 833602	44386 1749711	90230 3338993	157260	322540	+++++ 50.0	2.50 100	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.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

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
Carbon tetrachloride	FB	Ave	+++++ 642386	+++++ 1387632	64959 2666926	119195	245565	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Tetrahydrofuran	FB	Ave	+++++ 52056	+++++ 107940	4617 226298	8430	18928	+++++ 100	+++++ 200	10.0 400	20.0	40.0
Ethyl acetate	FB	Ave	+++++ 57855	+++++ 118457	4190 239763	9975	18952	+++++ 100	+++++ 200	10.0 400	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	+++++ 806072	+++++ 1661954	82778 3125295	148416	309067	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1-Dichloropropene	FB	Ave	+++++ 778107	+++++ 1648895	81668 3108974	143104	299175	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Butanone (MEK)	FB	Ave	+++++ 85027	+++++ 165732	8502 324250	14599	31440	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isooctane	FB	Ave	+++++ 2654992	+++++ 5540342	282992 10213706	509852	1025568	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Benzene	FB	Ave	45876 2140386	114986 4450503	233967 8210083	416007	826726	1.00 50.0	2.50 100	5.00 200	10.0	20.0
n-Heptane	FB	Ave	+++++ 903517	+++++ 1781839	99136 3108432	179849	353679	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Propionitrile	FB	Ave	+++++ 319976	+++++ 652422	31826 1292781	56204	121131	+++++ 500	+++++ 1000	50.0 2000	100	200
Methacrylonitrile	FB	Ave	+++++ 1160511	+++++ 2247501	125529 4175286	227144	451669	+++++ 500	+++++ 1000	50.0 2000	100	200
Tert-amyl methyl ether	FB	Ave	+++++ 989138	+++++ 2075501	97827 4205888	175196	361563	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloroethane	FB	Ave	+++++ 487584	25580 987407	51435 1896316	94241	187802	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
Isobutyl alcohol	FB	LinF	+++++ 126588	+++++ 254438	15335 556708	19415	43147	+++++ 1250	+++++ 2500	125 5000	250	500
Methylcyclohexane	FB	Ave	+++++ 954342	+++++ 1964327	101761 3603583	180296	366908	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Trichloroethene	FB	Ave	+++++ 539628	29855 1130340	58429 2132435	100215	210162	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
n-Butanol	FB	Qua	+++++ 167612	19918 359876	21995 820982	24394	56182	+++++ 1250	62.5 2500	125 5000	250	500
Dibromomethane	FB	Ave	+++++ 190807	+++++ 395373	19054 782552	34221	70163	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloropropane	FB	Ave	+++++ 507480	+++++ 1071738	50115 2065566	93001	188957	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl acrylate	FB	Ave	+++++ 349177	+++++ 723515	29321 1486056	53523	117949	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromodichloromethane	FB	Ave	+++++ 563744	+++++ 1183543	56382 2301742	98290	205042	+++++ 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.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

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
Methyl methacrylate	FB	Ave	+++++ 377048	+++++ 786504	32544 1621993	62532	131674	+++++ 100	+++++ 200	10.0 400	20.0	40.0
1,4-Dioxane	FB	Ave	+++++ 44577	+++++ 94019	4345 196091	6458	16326	+++++ 1000	+++++ 2000	100 4000	200	400
2-Chloroethyl vinyl ether	FB	Ave	+++++ 179222	+++++ 382250	13560 783628	27740	60618	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
cis-1,3-Dichloropropene	FB	Ave	+++++ 665447	+++++ 1422601	60517 2762580	112862	235969	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Toluene	CBNZ d5	Ave	25366 1349834	66728 2810515	137117 5333651	250288	509556	1.00 50.0	2.50 100	5.00 200	10.0	20.0
2-Nitropropane	CBNZ d5	Qua	+++++ 90788	+++++ 204264	7026 450527	12302	29740	+++++ 100	+++++ 200	10.0 400	20.0	40.0
Tetrachloroethene	CBNZ d5	Ave	+++++ 413313	20562 862452	42743 1639564	76899	151786	+++++ 50.0	2.50 100	5.00 200	10.0	20.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	+++++ 185236	+++++ 365559	16896 736976	30118	62468	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 523787	+++++ 1097015	46746 2156602	87621	184467	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 242285	+++++ 501492	24970 979829	44131	92096	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethyl methacrylate	CBNZ d5	Ave	+++++ 370854	+++++ 768978	30925 1593387	57088	124447	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dibromochloromethane	CBNZ d5	Ave	+++++ 300632	+++++ 625977	27853 1261941	48413	103661	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 533707	+++++ 1091701	56366 2122625	100841	202180	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 245335	+++++ 505315	23966 1006345	42979	88321	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Butyl acetate	CBNZ d5	Ave	+++++ 328511	+++++ 686837	29431 1411544	51374	109329	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Hexanone	CBNZ d5	Ave	+++++ 127099	+++++ 255131	11545 535896	21200	45446	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1-Chlorohexane	CBNZ d5	Ave	+++++ 959883	+++++ 2006184	101151 3533880	176901	360248	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Chlorobenzene	CBNZ d5	Ave	+++++ 1271345	+++++ 2598189	139972 4813346	239721	482253	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Ethylbenzene	CBNZ d5	Ave	53288 2525073	145406 5116757	276359 9210230	486195	971872	1.00 50.0	2.50 100	5.00 200	10.0	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 369349	+++++ 768848	39338 1485826	68075	135959	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
m,p-Xylenes	CBNZ d5	Ave	17919 943459	51971 1979866	95522 3710516	174453	354735	1.00 50.0	2.50 100	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.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

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
o-Xylene	CBNZ d5	Ave	16088 867704	50255 1779690	88813 3425550	156981	319576	1.00 50.0	2.50 100	5.00 200	10.0	20.0
Styrene	CBNZ d5	Ave	+++++ 1344648	+++++ 2808227	133429 5288626	236181	488383	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromoform	DCBd 4	Ave	+++++ 141378	+++++ 297479	13719 611505	23069	49535	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Isopropylbenzene	DCBd 4	Ave	+++++ 2360863	+++++ 4795140	248382 8453427	445375	894477	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Bromobenzene	DCBd 4	Ave	+++++ 431383	+++++ 892251	47330 1706830	81534	160500	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
N-Propylbenzene	DCBd 4	Ave	+++++ 2822630	+++++ 5643164	308155 9686421	548161	1091624	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 282172	+++++ 556105	36094 1123306	54351	106232	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 1587136	+++++ 3218184	181904 5947567	303360	604427	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 1825174	+++++ 3623057	200882 6613000	353936	702528	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 81727	+++++ 155262	9334 315424	15992	32221	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Cyclohexanone	DCBd 4	Qua	+++++ 64420	+++++ 130732	10347 292465	10844	22782	+++++ 500	+++++ 1000	50.0 2000	100	200
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 78842	+++++ 158151	9599 322055	14616	29377	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
4-Chlorotoluene	DCBd 4	Ave	+++++ 1580076	+++++ 3242485	177871 5947132	304638	607384	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 1570720	+++++ 3132105	174360 5856120	305440	593001	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 1801191	+++++ 3589700	199729 6604975	345371	692222	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 2490809	+++++ 4987280	279358 8809603	487767	955654	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
p-Isopropyltoluene	DCBd 4	Ave	+++++ 1969418	+++++ 3950253	214890 7185887	374194	751977	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 852936	+++++ 1738986	99107 3352909	165994	325399	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 819971	+++++ 1670156	101187 3223010	161469	313799	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 1646988	+++++ 3282827	195843 6111092	323963	639439	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Benzyl chloride	DCBd 4	Ave	+++++ 90390	+++++ 194771	7687 408917	13534	28635	+++++ 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.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

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	+++++ 508205	+++++ 1042944	54089 1977311	94683	190764	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 702386	+++++ 1406188	86109 2763344	135701	269521	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 33637	+++++ 68879	3986 152363	5693	11810	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
n-Nonyl Aldehyde	DCBd 4	QuaF	+++++ 175572	+++++ 380711	22784 771067	26198	55359	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 575297	+++++ 1186718	72064 2267914	119443	225702	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 315050	+++++ 616178	40430 1195492	66066	122905	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,4-Trichlorobenzene	DCBd 4	Lin1	+++++ 441183	+++++ 852827	58551 1642963	86427	166498	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Naphthalene	DCBd 4	Lin1	+++++ 704794	+++++ 1333650	93555 2639158	129911	256954	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2,3-Trichlorobenzene	DCBd 4	Lin1	+++++ 351706	+++++ 669537	48700 1251495	69511	133507	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 375055	+++++ 750141	34518 1566625	70405	141953	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 383530	+++++ 736636	37659 1511589	70851	150972	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
Toluene-d8 (Surr)	CBNZ d5	Ave	+++++ 1836421	+++++ 3633715	178137 7283345	338602	699496	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	+++++ 592807	+++++ 1163664	55834 2369259	109364	219027	+++++ 50.0	+++++ 100	5.00 200	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
LinF = Linear ISTD forced zero
Qua = Quadratic ISTD
QuaF = Quadratic ISTD forced zero

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 160-358742/3	XICL1618.D
Level 2	IC 160-358742/4	XICL1619.D
Level 3	IC 160-358742/5	XICL1620.D
Level 4	IC 160-358742/6	XICL1621.D
Level 5	IC 160-358742/7	XICL1622.D
Level 6	ICIS 160-358742/8	XICL1623.D
Level 7	IC 160-358742/9	XICL1624.D
Level 8	IC 160-358742/10	XICL1625.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	+++++ -12.2	+++++ -15.5	14.8	6.2	3.1	3.5	30	30	30	30	30	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ -0.8	+++++ -7.1	3.0	1.8	-3.6	6.7	30	30	30	30	30	30
Chloromethane	+++++ -3.5	+++++ -8.3	13.6	1.8	-1.4	-2.2	30	30	30	30	30	30
Vinyl chloride	3.0 -8.3	11.7 -16.3	13.9	1.7	-0.8	-5.0	30 30	30 30	30	30	30	30
Butadiene	+++++ -7.4	+++++ -17.3	18.1	4.3	3.8	-1.5	30	30	30	30	30	30
Bromomethane	+++++ -4.1	+++++ -6.6	11.7	1.4	1.2	-3.4	30	30	30	30	30	30
Chloroethane	+++++ -9.5	+++++ 5.5	6.4	-2.4	5.5	-5.6	30	30	30	30	30	30
Trichlorofluoromethane	+++++ -3.2	+++++ -6.7	10.9	2.2	-0.7	-2.5	30	30	30	30	30	30
Dichlorofluoromethane	+++++ -6.1	+++++ -9.5	17.3	2.8	0.4	-4.9	30	30	30	30	30	30
Ethyl ether	+++++ 1.8	+++++ 0.6	1.6	-2.2	-3.6	1.8	30	30	30	30	30	30
1,1-Dichloroethene	+++++ 1.5	+++++ -2.6	7.6	-1.4	-3.4	-1.7	30	30	30	30	30	30
Ethanol	+++++ 6.1	+++++ 7.3	17.3	-19.8	-5.9	-5.0	30	30	30	30	30	30
Carbon disulfide	+++++ 3.0	+++++ -3.4	5.5	-3.1	-2.3	0.4	30	30	30	30	30	30
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2	+++++ -3.9	12.5	-1.8	-4.9	-2.1	30	30	30	30	30	30
Iodomethane	+++++ 2.6	+++++ -1.3	7.0	-3.8	-2.9	-1.6	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Acrolein	+++++ -1.3	+++++ 2.3	14.1	-10.6	-3.1	-1.3	30	30	30	30	30	30
3-Chloro-1-propene	+++++ 0.3	+++++ -8.2	12.0	-1.2	-1.6	-1.3	30	30	30	30	30	30
Isopropyl alcohol	+++++ 0.5	92.4 * 0.0	19.9	-28.5	-5.2	0.4	30	30 30	30	30	30	30
Methylene Chloride	+++++ 0.7	+++++ -2.3	7.7	-2.4	-2.0	-1.7	30	30	30	30	30	30
Acetone	+++++ 1.3	+++++ 1.7	-7.2	0.1	0.0	4.1	30	30	30	30	30	30
trans-1,2-Dichloroethene	+++++ 1.0	1.6 -3.2	13.4	-3.9	-5.4	-3.6	30	30 30	30	30	30	30
Methyl acetate	+++++ 5.6	+++++ 8.3	1.5	-14.1	-5.1	3.8	30	30	30	30	30	30
Hexane	+++++ 4.2	+++++ 0.3	-3.7	-0.9	-1.5	1.6	30	30	30	30	30	30
Methyl tert-butyl ether	+++++ 0.0	+++++ 0.6	3.7	-2.5	-2.7	0.9	30	30	30	30	30	30
2-Methyl-2-propanol	+++++ -1.0	+++++ 0.1	25.8	-15.9	-4.8	4.3	30	30	30	30	30	30
Acetonitrile	+++++ 1.4	+++++ 2.5	1.8	-4.1	-1.7	0.0	30	30	30	30	30	30
Isopropyl ether	+++++ 3.1	+++++ -1.9	5.9	-3.9	-3.6	0.4	30	30	30	30	30	30
2-Chloro-1,3-butadiene	+++++ 3.7	+++++ -3.4	4.5	-2.7	-1.9	-0.2	30	30	30	30	30	30
1,1-Dichloroethane	+++++ 0.3	+++++ -4.9	10.9	-2.6	-1.7	-2.1	30	30	30	30	30	30
Acrylonitrile	+++++ -0.5	+++++ -1.2	7.1	-2.1	-2.8	-0.6	30	30	30	30	30	30
Tert-butyl ethyl ether	+++++ 4.5	+++++ 2.4	4.2	-6.2	-5.9	1.0	30	30	30	30	30	30
Vinyl acetate	+++++ -2.1	+++++ -3.2	4.5	-2.1	-1.5	4.3	30	30	30	30	30	30
2,2-Dichloropropane	+++++ -1.6	+++++ -8.4	9.4	2.0	-1.7	0.2	30	30	30	30	30	30
Cyclohexane	+++++ 1.8	+++++ -2.6	7.6	-3.5	-2.1	-1.2	30	30	30	30	30	30
Bromochloromethane	+++++ 1.3	+++++ -0.9	3.2	-1.2	-1.8	-0.5	30	30	30	30	30	30
Chloroform	+++++ -1.5	9.3 -5.8	9.8	-3.9	-3.9	-4.0	30	30 30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Carbon tetrachloride	+++++ 3.6	+++++ -0.2	4.9	-3.3	-3.0	-1.9	30	30	30	30	30	30
Tetrahydrofuran	+++++ 4.6	+++++ 9.9	-3.3	-11.3	-3.0	3.1	30	30	30	30	30	30
Ethyl acetate	+++++ 8.3	+++++ 9.9	-17.2	-0.9	-8.3	8.2	30	30	30	30	30	30
1,1,1-Trichloroethane	+++++ 0.6	+++++ -5.2	8.3	-2.4	-1.1	-0.2	30	30	30	30	30	30
1,1-Dichloropropene	+++++ 2.0	+++++ -3.6	9.2	-3.9	-2.1	-1.6	30	30	30	30	30	30
2-Butanone (MEK)	+++++ -1.6	+++++ -3.5	9.1	-5.9	-1.3	3.2	30	30	30	30	30	30
Isooctane	+++++ 0.2	+++++ -7.4	10.7	0.2	-1.9	-1.8	30	30	30	30	30	30
Benzene	8.1 -3.5	9.0 -10.8	9.6	-2.1	-5.2	-5.1	30 30	30 30	30	30	30	30
n-Heptane	+++++ -4.2	+++++ -16.2	15.3	5.1	0.6	-0.6	30	30	30	30	30	30
Propionitrile	+++++ 0.5	+++++ -0.1	6.0	-6.0	-1.3	0.8	30	30	30	30	30	30
Methacrylonitrile	+++++ -5.6	+++++ -12.1	14.0	3.6	0.4	-0.3	30	30	30	30	30	30
Tert-amyl methyl ether	+++++ 2.6	+++++ 4.2	4.6	-5.9	-5.5	0.0	30	30	30	30	30	30
1,2-Dichloroethane	+++++ -3.8	9.0 -7.4	8.4	-0.3	-3.2	-2.8	30	30 30	30	30	30	30
Isobutyl alcohol	+++++ -6.8	+++++ 2.2	21.5	-22.8	-16.4	-5.2	30	30	30	30	30	30
Methylcyclohexane	+++++ -0.3	+++++ -8.3	11.7	-0.6	-1.5	-0.9	30	30	30	30	30	30
Trichloroethene	+++++ -2.0	13.2 -7.3	9.6	-5.6	-3.6	-4.3	30	30 30	30	30	30	30
n-Butanol	+++++ 0.3	119.9 * 0.0	23.1	-29.6	-11.9	1.9	30	30 30	30	30	30	30
Dibromomethane	+++++ 1.7	+++++ 0.9	6.0	-4.4	-4.5	0.4	30	30	30	30	30	30
1,2-Dichloropropane	+++++ 3.1	+++++ -0.4	4.2	-2.9	-3.9	-0.2	30	30	30	30	30	30
Ethyl acrylate	+++++ 7.9	+++++ 11.1	-5.4	-13.3	-6.9	6.5	30	30	30	30	30	30
Bromodichloromethane	+++++ 3.5	+++++ 0.9	6.6	-6.7	-5.2	0.8	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Methyl methacrylate	+++++ 6.0	+++++ 9.6	-5.1	-8.4	-6.1	4.0	30	30	30	30	30	30
1,4-Dioxane	+++++ 5.6	+++++ 10.5	5.6	-21.2	-2.9	2.4	30	30	30	30	30	30
2-Chloroethyl vinyl ether	+++++ 11.5	+++++ 14.6	-14.5	-12.1	-6.5	6.9	30	30	30	30	30	30
cis-1,3-Dichloropropene	+++++ 7.3	+++++ 4.5	-1.3	-7.5	-5.8	2.7	30	30	30	30	30	30
Toluene	-1.7 1.7	4.4 -1.7	5.1	-3.2	-2.9	-1.7	30 30	30 30	30	30	30	30
2-Nitropropane	+++++ 0.7	+++++ -0.1	29.5	-4.6	-4.3	-1.5	30	30	30	30	30	30
Tetrachloroethene	+++++ 1.6	4.7 -1.6	6.6	-3.3	-5.9	-2.1	30	30 30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	+++++ 3.4	+++++ 6.2	1.1	-9.0	-7.0	5.3	30	30	30	30	30	30
trans-1,3-Dichloropropene	+++++ 7.1	+++++ 7.3	-3.4	-8.6	-5.2	2.8	30	30	30	30	30	30
1,1,2-Trichloroethane	+++++ 1.2	+++++ 0.7	6.7	-4.9	-2.1	-1.7	30	30	30	30	30	30
Ethyl methacrylate	+++++ 8.7	+++++ 14.7	-7.5	-13.8	-7.4	5.4	30	30	30	30	30	30
Dibromochloromethane	+++++ 6.5	+++++ 9.4	0.3	-12.0	-7.1	2.9	30	30	30	30	30	30
1,3-Dichloropropane	+++++ -0.5	+++++ -1.4	8.8	-1.8	-2.9	-2.2	30	30	30	30	30	30
1,2-Dibromoethane	+++++ 3.0	+++++ 4.5	3.4	-6.4	-5.2	0.6	30	30	30	30	30	30
n-Butyl acetate	+++++ 8.1	+++++ 13.1	-2.0	-13.7	-9.4	3.9	30	30	30	30	30	30
2-Hexanone	+++++ 2.5	+++++ 9.6	-1.8	-9.1	-3.9	2.7	30	30	30	30	30	30
1-Chlorohexane	+++++ 3.2	+++++ -7.4	10.1	-2.8	-2.4	-0.7	30	30	30	30	30	30
Chlorobenzene	+++++ -0.5	+++++ -6.1	13.5	-2.0	-2.8	-2.1	30	30	30	30	30	30
Ethylbenzene	6.1 -4.9	16.8 -12.8	8.7	-3.5	-4.9	-5.6	30 30	30 30	30	30	30	30
1,1,1,2-Tetrachloroethane	+++++ 1.5	+++++ -0.1	9.9	-4.0	-5.5	-1.9	30	30	30	30	30	30
m,p-Xylenes	-2.1 1.0	14.6 -3.6	3.1	-5.0	-4.7	-3.2	30 30	30 30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
o-Xylene	-4.3 -1.2	20.6 -3.1	4.4	-6.9	-6.5	-3.1	30 30	30 30	30	30	30	30
Styrene	+++++ 4.5	+++++ 0.2	5.1	-6.1	-4.3	0.6	30	30	30	30	30	30
Bromoform	+++++ 8.0	+++++ 8.1	2.5	-13.8	-7.2	2.5	30	30	30	30	30	30
Isopropylbenzene	+++++ 3.0	+++++ -11.6	9.8	-1.5	-0.9	1.2	30	30	30	30	30	30
Bromobenzene	+++++ 2.4	+++++ -4.6	11.8	-3.6	-4.9	-1.1	30	30	30	30	30	30
N-Propylbenzene	+++++ 0.7	+++++ -15.8	13.2	0.7	0.5	0.6	30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	+++++ -5.1	+++++ -6.7	26.7	-4.5	-6.5	-3.9	30	30	30	30	30	30
2-Chlorotoluene	+++++ 0.2	+++++ -9.8	16.6	-2.7	-2.9	-1.3	30	30	30	30	30	30
1,3,5-Trimethylbenzene	+++++ -0.7	+++++ -11.7	13.3	-0.1	-0.7	-0.1	30	30	30	30	30	30
1,2,3-Trichloropropane	+++++ -6.4	+++++ -7.4	15.8	-0.7	0.2	-1.6	30	30	30	30	30	30
Cyclohexanone	+++++ -0.1	+++++ 0.0	53.1 *	-19.1	-8.1	1.9	30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	+++++ -2.4	+++++ -3.2	22.0	-7.1	-6.5	-2.8	30	30	30	30	30	30
4-Chlorotoluene	+++++ 1.2	+++++ -9.6	14.3	-2.1	-2.2	-1.5	30	30	30	30	30	30
tert-Butylbenzene	+++++ -0.6	+++++ -9.5	13.8	-0.2	-2.9	-0.5	30	30	30	30	30	30
1,2,4-Trimethylbenzene	+++++ -0.5	+++++ -10.8	14.0	-1.4	-1.0	-0.3	30	30	30	30	30	30
sec-Butylbenzene	+++++ -0.1	+++++ -14.1	15.2	0.6	-1.2	-0.4	30	30	30	30	30	30
p-Isopropyltoluene	+++++ 0.7	+++++ -10.8	12.7	-1.8	-1.1	0.2	30	30	30	30	30	30
1,3-Dichlorobenzene	+++++ -0.7	+++++ -6.7	16.5	-2.4	-4.1	-2.7	30	30	30	30	30	30
1,4-Dichlorobenzene	+++++ -2.2	+++++ -8.0	22.0	-2.6	-5.2	-4.1	30	30	30	30	30	30
1,2,3-Trimethylbenzene	+++++ -2.6	+++++ -11.7	19.7	-1.0	-2.1	-2.4	30	30	30	30	30	30
Benzyl chloride	+++++ 14.6	+++++ 17.2	-6.9	-18.0	-13.1	6.2	30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1 Analy Batch No.: 358742

SDG No.:

Instrument ID: VMSX GC Column: RTXVMS30 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 04/03/2018 21:52 Calibration End Date: 04/04/2018 00:48 Calibration ID: 14504

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
n-Butylbenzene	+++++ 2.7	+++++ -5.2	9.6	-4.0	-3.1	-0.1	30	30	30	30	30	30
1,2-Dichlorobenzene	+++++ -3.2	+++++ -7.3	22.0	-3.8	-4.3	-3.4	30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	+++++ 0.3	+++++ 8.1	19.5	-14.6	-11.2	-2.1	30	30	30	30	30	30
n-Nonyl Aldehyde	+++++ 3.2	+++++ -0.3	29.8	-25.3	-21.1	-3.8	30	30	30	30	30	30
1,3,5-Trichlorobenzene	+++++ -2.7	+++++ -9.4	21.6	0.8	-4.5	-5.8	30	30	30	30	30	30
Hexachlorobutadiene	+++++ -7.0	+++++ -12.1	25.6	2.7	-4.3	-5.0	30	30	30	30	30	30
1,2,4-Trichlorobenzene	+++++ 3.3	+++++ -2.2	8.4	-10.3	-4.0	4.8	30	30	30	30	30	30
Naphthalene	+++++ 1.6	+++++ -1.3	14.0	-13.9	-6.0	5.6	30	30	30	30	30	30
1,2,3-Trichlorobenzene	+++++ 4.8	+++++ -3.5	6.6	-12.3	-3.0	7.3	30	30	30	30	30	30
Dibromofluoromethane (Surr)	+++++ -1.4	+++++ 3.2	-1.9	0.5	-1.3	0.8	30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	+++++ -5.2	+++++ -2.5	4.8	-0.9	2.8	1.0	30	30	30	30	30	30
Toluene-d8 (Surr)	+++++ -1.4	+++++ 0.7	2.3	-1.8	0.0	0.2	30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	+++++ 1.1	+++++ 0.2	-0.2	-2.2	-1.8	2.8	30	30	30	30	30	30

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1618.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 03-Apr-2018 21:52:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012973-003
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:30:16 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 14:16:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.877	0.012	95	12433	1.00	1.05	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.043				ND	ND	
3 Chloromethane	50	2.090	2.090	0.000	98	15215	1.00	1.15	
4 Vinyl chloride	62	2.197	2.197	0.000	95	14453	1.00	1.03	
121 Butadiene	39	2.220	2.209	0.011	78	7549	1.00	1.10	
5 Bromomethane	94	2.575	2.576	-0.001	79	6460	1.00	1.07	
6 Chloroethane	64		2.741				ND	ND	
7 Trichlorofluoromethane	101	2.919	2.907	0.011	93	13055	1.00	1.00	
122 Dichlorofluoromethane	67	3.013	3.001	0.012	94	15285	1.00	1.12	
8 Ethyl ether	74	3.356	3.345	0.011	86	4100	1.00	0.9164	
9 1,1-Dichloroethene	96	3.605	3.593	0.012	62	9427	1.00	0.9715	
11 Ethanol	45		3.605				ND	ND	
10 Carbon disulfide	76	3.605	3.605	0.000	98	33457	1.00	1.01	
12 1,1,2-Trichloro-1,2,2-trif	151	3.699	3.700	-0.001	87	7336	1.00	1.05	
13 Iodomethane	142		3.782				ND	ND	
14 Acrolein	56		4.126				ND	ND	
15 3-Chloro-1-propene	39	4.338	4.339	-0.001	86	7224	1.00	0.8690	
16 Isopropyl alcohol	45		4.492				ND	ND	
17 Methylene Chloride	84	4.528	4.516	0.012	89	9585	1.00	1.07	
18 Acetone	43		4.634				ND	ND	
19 trans-1,2-Dichloroethene	96	4.788	4.776	0.012	93	9163	1.00	0.8699	
20 Methyl acetate	74		4.859				ND	ND	
21 Hexane	86	4.930	4.930	0.000	67	1637	1.00	0.4639	
22 Methyl tert-butyl ether	73	5.013	5.001	0.012	84	15329	1.00	0.9570	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	6	3224	10.0	-4.04	
24 Acetonitrile	41	5.380	5.368	0.012	47	2966	10.0	7.25	
25 Isopropyl ether	45	5.628	5.628	0.000	93	26068	1.00	1.03	
27 2-Chloro-1,3-butadiene	53		5.711				ND	ND	
28 1,1-Dichloroethane	63		5.747				ND	ND	
S 26 1,2-Dichloroethene, Total	96				0			1.81	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.853	5.853	0.000	99	15289	10.0	9.64	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	94	24101	1.00	0.9568	
31 Vinyl acetate	43	6.184	6.185	-0.001	39	9729	1.00	0.8813	
32 cis-1,2-Dichloroethene	96	6.539	6.540	-0.001	79	9920	1.00	0.9371	
33 2,2-Dichloropropane	77		6.682				ND	ND	
34 Cyclohexane	84	6.788	6.788	0.000	87	17775	1.00	0.9743	
35 Chlorobromomethane	128	6.812	6.812	0.000	37	2298	1.00	0.7032	
36 Chloroform	83	6.942	6.942	0.000	88	16738	1.00	1.02	
37 Carbon tetrachloride	117	7.084	7.084	0.000	91	12937	1.00	1.05	
39 Ethyl acetate	45		7.155				ND	ND	
38 Tetrahydrofuran	71		7.155				ND	ND	
$ 41 Dibromofluoromethane (Surr	113		7.179				ND	ND	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	91	15106	1.00	0.99	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	92	14622	1.00	0.9834	
43 2-Butanone (MEK)	43		7.380				ND	ND	
124 Isooctane	57	7.522	7.522	0.000	92	52211	1.00	1.03	
117 n-Heptane	43	7.687	7.687	0.000	65	16685	1.00	0.9758	
44 Benzene	78	7.687	7.687	0.000	94	45876	1.00	1.08	
45 Propionitrile	54		7.758				ND	ND	
46 Methacrylonitrile	41	7.782	7.782	0.000	80	21671	10.0	9.90	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	-0.001	55	7579	1.00	1.06	
48 Tert-amyl methyl ether	73	7.888	7.888	0.000	91	16825	1.00	0.9044	
49 1,2-Dichloroethane	62	7.959	7.959	0.000	91	9730	1.00	1.03	
50 Isobutyl alcohol	42	8.089	8.090	-0.001	29	1637	25.0	16.3	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1816365	50.0	50.0	
52 Methylcyclohexane	55	8.421	8.421	0.000	86	18157	1.00	1.00	
53 Trichloroethene	95	8.456	8.456	0.000	91	10479	1.00	0.9881	
54 n-Butanol	56		8.977				ND	ND	
55 Dibromomethane	93	8.989	8.989	0.000	78	2016	1.00	0.5639	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	88	9801	1.00	1.03	
123 Ethyl acrylate	55		9.202				ND	ND	
57 Dichlorobromomethane	83	9.214	9.214	0.000	91	10135	1.00	0.9637	
58 Methyl methacrylate	69		9.450				ND	ND	
59 1,4-Dioxane	88		9.486				ND	ND	
60 2-Chloroethyl vinyl ether	63		9.959				ND	ND	
61 cis-1,3-Dichloropropene	75	10.006	10.007	-0.001	92	9875	1.00	0.8103	
$ 62 Toluene-d8 (Surr)	98	10.243	10.231	0.012	92	33808	1.00	0.9828	
63 Toluene	92	10.302	10.302	0.000	97	25366	1.00	0.9835	
64 2-Nitropropane	43		10.598				ND	ND	
65 Tetrachloroethene	164	10.752	10.752	0.000	92	8186	1.00	1.03	
66 4-Methyl-2-pentanone (MIBK	43		10.788				ND	ND	
67 trans-1,3-Dichloropropene	75	10.811	10.823	-0.012	82	7657	1.00	0.8008	
68 1,1,2-Trichloroethane	83	11.000	11.001	-0.001	75	4314	1.00	0.9327	
69 Ethyl methacrylate	69	11.024	11.024	0.000	80	5013	1.00	0.7588	
70 Chlorodibromomethane	129	11.178	11.190	-0.012	83	4996	1.00	0.9107	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	80	10161	1.00	0.99	
72 Ethylene Dibromide	107	11.438	11.427	0.011	42	3939	1.00	0.8603	
S 73 1,3-Dichloropropene, Total	75				0			1.61	
118 n-Butyl acetate	43		11.628				ND	ND	
74 2-Hexanone	43		11.711				ND	ND	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	88	1080614	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	0.000	56	20414	1.00	1.12	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	11.994	11.995	0.000	90	27492	1.00	1.13	
78 Ethylbenzene	91	12.030	12.030	0.000	98	53288	1.00	1.06	
79 1,1,1,2-Tetrachloroethane	131	12.065	12.066	-0.001	81	6153	1.00	0.8702	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	98	17919	1.00	0.9789	
82 o-Xylene	106	12.598	12.598	0.000	95	16088	1.00	0.9571	
83 Styrene	104	12.657	12.657	0.000	91	21884	1.00	0.8722	
84 Bromoform	173		12.669				ND	ND	
85 Isopropylbenzene	105	12.905	12.906	-0.001	94	45012	1.00	1.00	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	83	10603	1.00	0.9502	
87 Bromobenzene	156	13.260	13.261	-0.001	90	8055	1.00	0.9538	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	57238	1.00	1.05	
89 1,1,2,2-Tetrachloroethane	83		13.367				ND	ND	
90 2-Chlorotoluene	91	13.438	13.438	0.000	94	35530	1.00	1.14	
91 1,3,5-Trimethylbenzene	105	13.473	13.474	-0.001	92	34729	1.00	0.9818	
92 1,2,3-Trichloropropane	110		13.485				ND	ND	
93 trans-1,4-Dichloro-2-buten	53		13.521				ND	ND	
94 Cyclohexanone	55		13.533				ND	ND	
95 4-Chlorotoluene	91	13.592	13.592	0.000	97	34657	1.00	1.12	
96 tert-Butylbenzene	119	13.769	13.769	0.000	90	32085	1.00	1.05	
97 1,2,4-Trimethylbenzene	105	13.828	13.829	-0.001	94	37339	1.00	1.07	
98 sec-Butylbenzene	105	13.923	13.923	0.000	93	52385	1.00	1.08	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	95	39008	1.00	1.03	
100 1,3-Dichlorobenzene	146	14.112	14.113	-0.001	94	20742	1.00	1.22	
* 101 1,4-Dichlorobenzene-d4	152	14.183	14.184	-0.001	97	486042	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	92	22844	1.00	1.38	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	94	37304	1.00	1.14	
103 n-Butylbenzene	134	14.420	14.420	0.000	96	10259	1.00	1.04	
120 Benzyl chloride	126		14.420				ND	ND	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	94	18989	1.00	1.35	
105 1,2-Dibromo-3-Chloropropan	157		15.260				ND	ND	
106 n-Nonyl Aldehyde	57		15.272				ND	ND	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	94	16296	1.00	1.38	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	91	7985	1.00	1.24	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	89	12110	1.00	-0.4838	
110 Naphthalene	128	16.100	16.101	-0.001	93	17558	1.00	-0.3579	
111 1,2,3-Trichlorobenzene	180	16.254	16.254	0.000	94	11068	1.00	-0.8858	
S 112 Xylenes, Total	106				0			1.94	
S 113 Trihalomethanes, Total	1				0			2.90	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

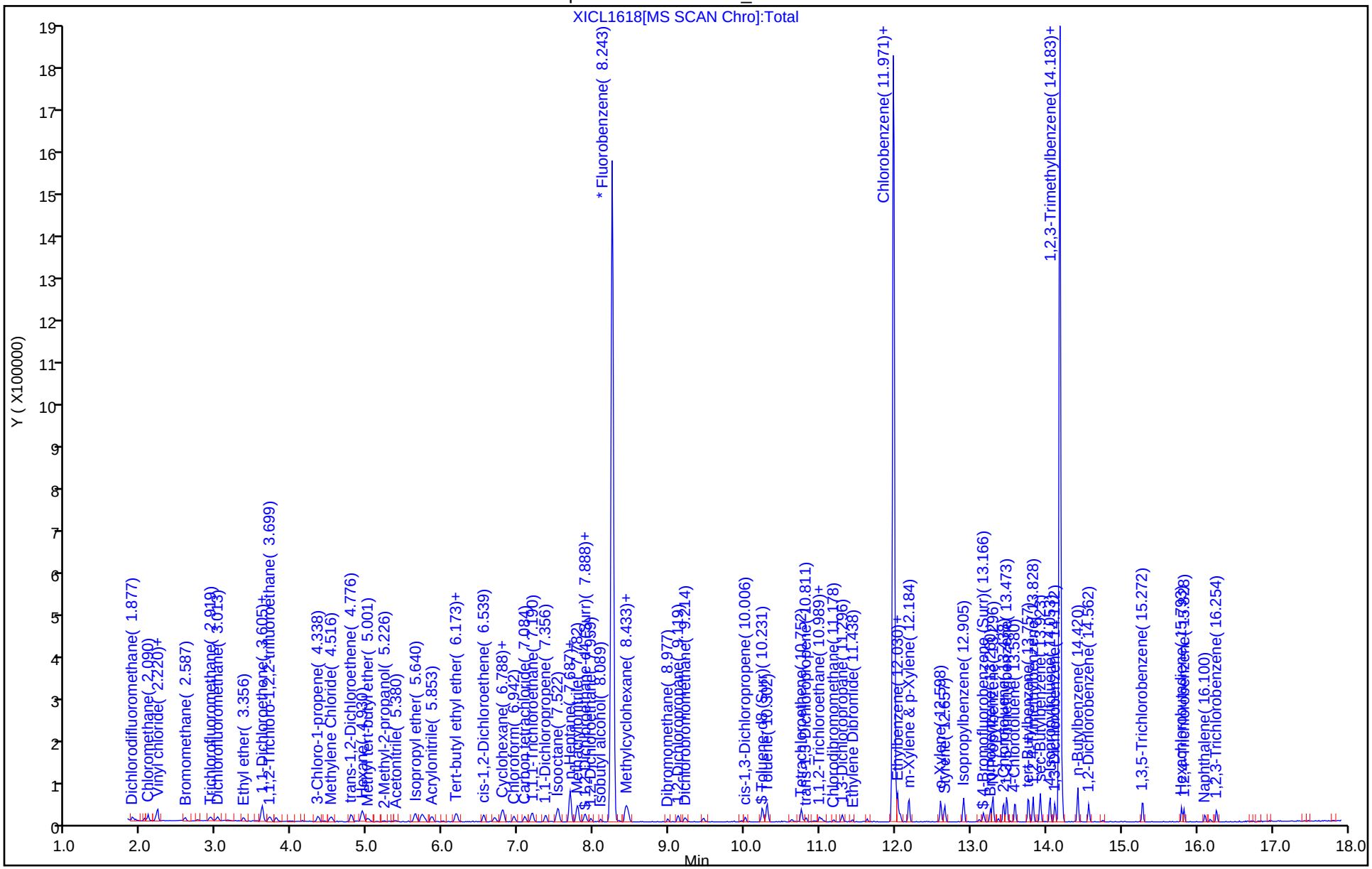
8260 NewWkMix_00269	Amount Added: 0.20	Units: uL	
8260 Surr 25_00085	Amount Added: 0.20	Units: uL	
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:30:18 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1618.D

Injection Date:	03-Apr-2018 21:52:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	IC			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
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1619.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 03-Apr-2018 22:17:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012973-004
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:30:20 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 14:31:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.877	0.012	98	33152	2.50	2.82	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.043				ND	ND	
3 Chloromethane	50	2.090	2.090	0.000	98	36008	2.50	2.74	
4 Vinyl chloride	62	2.197	2.197	0.000	97	38951	2.50	2.79	
121 Butadiene	39	2.220	2.209	0.011	79	20319	2.50	2.98	
5 Bromomethane	94	2.575	2.576	-0.001	88	16250	2.50	2.71	
6 Chloroethane	64	2.753	2.741	0.012	95	15121	2.50	1.45	
7 Trichlorofluoromethane	101	2.919	2.907	0.011	95	35026	2.50	2.70	
122 Dichlorofluoromethane	67	3.013	3.001	0.012	94	38135	2.50	2.80	
8 Ethyl ether	74	3.344	3.345	-0.001	88	11269	2.50	2.53	
9 1,1-Dichloroethene	96	3.605	3.593	0.012	70	25001	2.50	2.59	
10 Carbon disulfide	76	3.605	3.605	0.000	98	84137	2.50	2.56	
11 Ethanol	45		3.605				ND	ND	
12 1,1,2-Trichloro-1,2,2-trif	151	3.711	3.700	0.011	89	17678	2.50	2.55	
13 Iodomethane	142	3.782	3.782	0.000	99	33839	2.50	2.66	
14 Acrolein	56	4.137	4.126	0.011	98	10933	12.5	16.7	
15 3-Chloro-1-propene	39	4.338	4.339	-0.001	93	22498	2.50	2.72	
16 Isopropyl alcohol	45	4.504	4.492	0.012	25	12884	25.0	48.1	
17 Methylene Chloride	84	4.516	4.516	0.000	91	23483	2.50	2.64	
18 Acetone	43		4.634				ND	ND	
19 trans-1,2-Dichloroethene	96	4.788	4.776	0.012	96	26619	2.50	2.54	
20 Methyl acetate	74	4.859	4.859	0.000	51	1597	12.5	6.17	
21 Hexane	86	4.930	4.930	0.000	79	7983	2.50	2.27	
22 Methyl tert-butyl ether	73		5.001				ND	ND	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	94	24198	25.0	54.0	
24 Acetonitrile	41	5.380	5.368	0.012	94	9379	25.0	23.1	
25 Isopropyl ether	45	5.628	5.628	0.000	92	64836	2.50	2.56	
27 2-Chloro-1,3-butadiene	53	5.723	5.711	0.012	90	42704	2.50	2.53	
28 1,1-Dichloroethane	63	5.758	5.747	0.011	94	50540	2.50	2.67	
S 26 1,2-Dichloroethene, Total	96				0			5.20	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.853	5.853	0.000	98	40215	25.0	25.5	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	98	61765	2.50	2.47	
31 Vinyl acetate	43	6.184	6.185	-0.001	45	25779	2.50	2.35	
32 cis-1,2-Dichloroethene	96	6.539	6.540	-0.001	79	27953	2.50	2.66	
33 2,2-Dichloropropane	77	6.681	6.682	-0.001	88	30811	2.50	2.61	
34 Cyclohexane	84	6.788	6.788	0.000	89	44555	2.50	2.46	
35 Chlorobromomethane	128	6.812	6.812	0.000	91	7918	2.50	2.44	
36 Chloroform	83	6.942	6.942	0.000	91	44386	2.50	2.73	
37 Carbon tetrachloride	117	7.084	7.084	0.000	96	31537	2.50	2.57	
38 Tetrahydrofuran	71		7.155				ND	ND	
39 Ethyl acetate	45		7.155				ND	ND	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.012	61	17441	2.50	2.51	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	96	41088	2.50	2.72	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	96	38329	2.50	2.59	
43 2-Butanone (MEK)	43		7.380				ND	ND	
124 Isooctane	57	7.522	7.522	0.000	94	133944	2.50	2.65	
44 Benzene	78	7.687	7.687	0.000	96	114986	2.50	2.72	
117 n-Heptane	43	7.687	7.687	0.000	67	44933	2.50	2.64	
45 Propionitrile	54		7.758				ND	ND	
46 Methacrylonitrile	41	7.782	7.782	0.000	85	60137	25.0	27.6	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.876	7.877	-0.001	95	19137	2.50	2.69	
48 Tert-amyl methyl ether	73	7.888	7.888	0.000	96	46731	2.50	2.53	
49 1,2-Dichloroethane	62	7.959	7.959	0.000	95	25580	2.50	2.73	
50 Isobutyl alcohol	42	8.089	8.090	-0.001	95	15039	62.5	150.6	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1806431	50.0	50.0	
52 Methylcyclohexane	55	8.421	8.421	0.000	91	50156	2.50	2.78	
53 Trichloroethene	95	8.456	8.456	0.000	95	29855	2.50	2.83	
54 n-Butanol	56	8.977	8.977	0.000	78	19918	62.5	137.4	
55 Dibromomethane	93	8.989	8.989	0.000	57	8666	2.50	2.44	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	94	25780	2.50	2.71	
123 Ethyl acrylate	55		9.202				ND	ND	
57 Dichlorobromomethane	83	9.214	9.214	0.000	97	27197	2.50	2.60	
58 Methyl methacrylate	69	9.462	9.450	0.012	84	17532	5.00	5.17	
59 1,4-Dioxane	88		9.486				ND	ND	
60 2-Chloroethyl vinyl ether	63		9.959				ND	ND	
61 cis-1,3-Dichloropropene	75	10.006	10.007	-0.001	96	30233	2.50	2.49	
$ 62 Toluene-d8 (Surr)	98	10.243	10.231	0.012	93	85616	2.50	2.51	
63 Toluene	92	10.302	10.302	0.000	97	66728	2.50	2.61	
64 2-Nitropropane	43	10.598	10.598	0.000	50	4430	5.00	10.1	
65 Tetrachloroethene	164	10.752	10.752	0.000	90	20562	2.50	2.62	
66 4-Methyl-2-pentanone (MIBK	43	10.787	10.788	-0.001	87	11729	2.50	3.58	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	88	24183	2.50	2.55	
68 1,1,2-Trichloroethane	83	11.000	11.001	-0.001	88	13542	2.50	2.95	
69 Ethyl methacrylate	69	11.024	11.024	0.000	82	17606	2.50	2.69	
70 Chlorodibromomethane	129	11.178	11.190	-0.012	89	14942	2.50	2.75	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	86	29505	2.50	2.91	
72 Ethylene Dibromide	107	11.426	11.427	-0.001	92	12710	2.50	2.80	
S 73 1,3-Dichloropropene, Total	75				0			5.05	
118 n-Butyl acetate	43	11.628	11.628	0.000	95	21581	2.50	3.67	
74 2-Hexanone	43		11.711				ND	ND	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	89	1071273	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	-0.001	60	52458	2.50	2.92	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	11.994	11.995	0.000	97	79621	2.50	3.29	
78 Ethylbenzene	91	12.030	12.030	0.000	98	145406	2.50	2.92	
79 1,1,1,2-Tetrachloroethane	131	12.065	12.066	-0.001	90	22885	2.50	3.26	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	99	51971	2.50	2.86	
82 o-Xylene	106	12.598	12.598	0.000	97	50255	2.50	3.02	
83 Styrene	104	12.657	12.657	0.000	94	77493	2.50	3.12	
84 Bromoform	173	12.669	12.669	0.000	93	9974	2.50	3.81	
85 Isopropylbenzene	105	12.905	12.906	-0.001	95	149446	2.50	3.38	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	82	27474	2.50	2.51	
87 Bromobenzene	156	13.260	13.261	-0.001	93	31957	2.50	3.86	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	186666	2.50	3.51	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	93	33050	2.50	5.94	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	120654	2.50	3.96	
91 1,3,5-Trimethylbenzene	105	13.473	13.474	-0.001	93	125524	2.50	3.62	
92 1,2,3-Trichloropropane	110	13.485	13.485	0.000	81	7662	2.50	4.87	
93 trans-1,4-Dichloro-2-buten	53	13.521	13.521	0.000	81	7437	2.50	4.83	
94 Cyclohexanone	55	13.521	13.533	-0.012	79	8976	25.0	66.5	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	127238	2.50	4.18	
96 tert-Butylbenzene	119	13.769	13.769	0.000	92	117539	2.50	3.93	
97 1,2,4-Trimethylbenzene	105	13.828	13.829	-0.001	97	134680	2.50	3.93	
98 sec-Butylbenzene	105	13.923	13.923	0.000	94	189008	2.50	3.99	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	96	152285	2.50	4.09	
100 1,3-Dichlorobenzene	146	14.112	14.113	-0.001	96	76288	2.50	4.59	
* 101 1,4-Dichlorobenzene-d4	152	14.183	14.184	-0.001	97	476017	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	93	78893	2.50	4.87	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	95	141716	2.50	4.43	
120 Benzyl chloride	126	14.420	14.420	0.000	89	7574	2.50	4.69	
103 n-Butylbenzene	134	14.420	14.420	0.000	97	38514	2.50	3.99	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	96	73213	2.50	5.31	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	1	4048	2.50	6.21	
106 n-Nonyl Aldehyde	57	15.272	15.272	0.000	56	19355	2.50	5.64	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	59747	2.50	5.16	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	96	33051	2.50	5.26	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	94	49604	2.50	4.43	
110 Naphthalene	128	16.100	16.101	-0.001	96	84404	2.50	5.13	
111 1,2,3-Trichlorobenzene	180	16.254	16.254	0.000	94	42672	2.50	4.50	
S 112 Xylenes, Total	106				0			5.88	
S 113 Trihalomethanes, Total	1				0			11.9	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

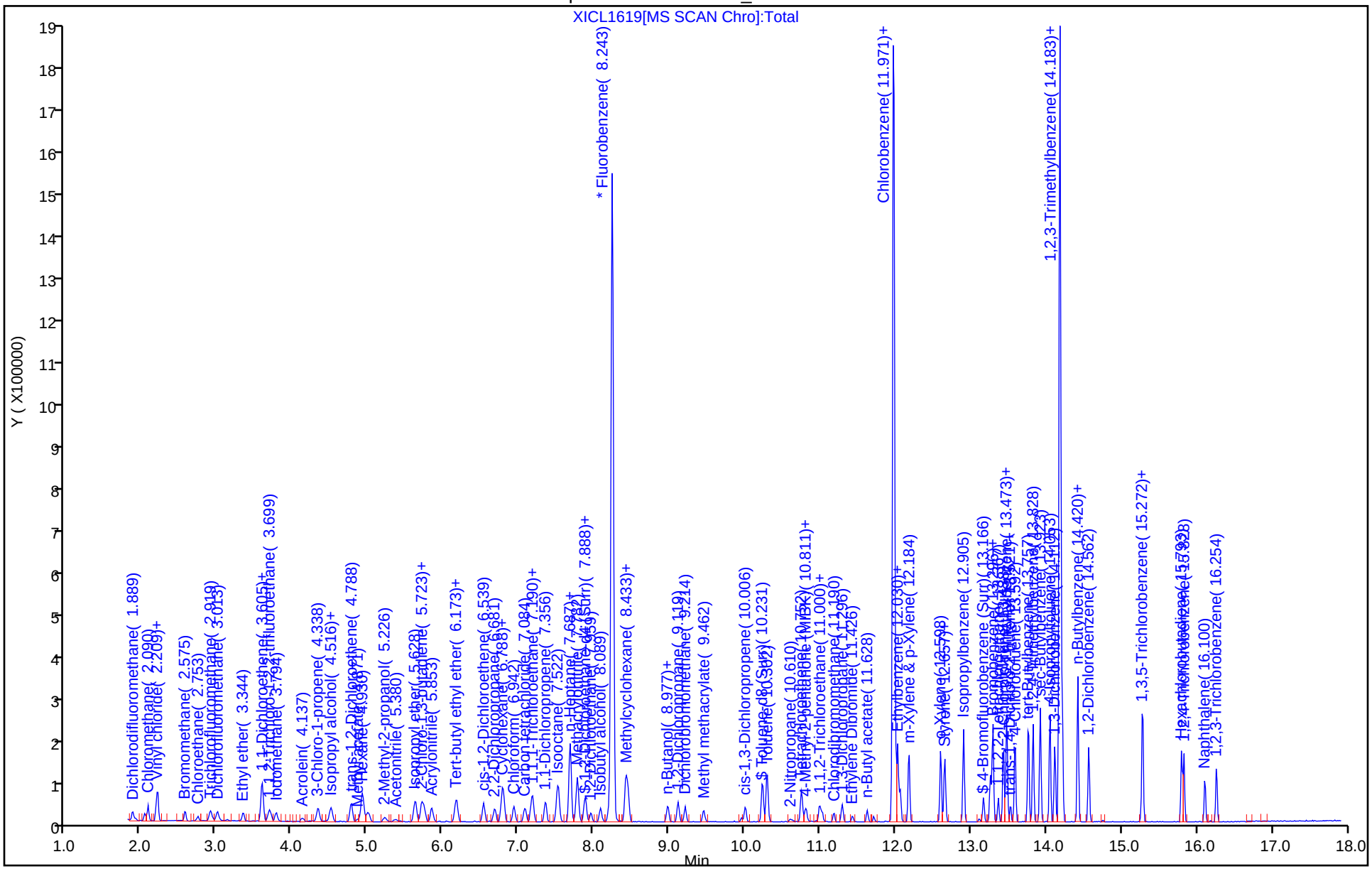
8260 NewWkMix_00269	Amount Added: 0.50	Units: uL	
8260 Surr 25_00085	Amount Added: 0.50	Units: uL	
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:30:23 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1619.D

Injection Date:	03-Apr-2018 22:17:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	IC			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
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1620.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 03-Apr-2018 22:42:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012973-005
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:30:27 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 14:33:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.877	0.012	98	68366	5.00	5.74	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.055	2.043	0.012	70	25227	5.00	5.15	a
3 Chloromethane	50	2.090	2.090	0.000	99	75487	5.00	5.68	
4 Vinyl chloride	62	2.197	2.197	0.000	97	80383	5.00	5.70	
121 Butadiene	39	2.220	2.209	0.011	80	40770	5.00	5.90	
5 Bromomethane	94	2.587	2.576	0.011	90	33832	5.00	5.58	
6 Chloroethane	64	2.753	2.741	0.012	96	32928	5.00	5.32	
7 Trichlorofluoromethane	101	2.919	2.907	0.012	98	72813	5.00	5.54	
122 Dichlorofluoromethane	67	3.013	3.001	0.012	96	80885	5.00	5.87	
8 Ethyl ether	74	3.345	3.345	-0.001	90	22861	5.00	5.08	
9 1,1-Dichloroethene	96	3.605	3.593	0.012	94	52487	5.00	5.38	
11 Ethanol	45	3.605	3.605	0.000	26	9602	200.0	234.5	
10 Carbon disulfide	76	3.605	3.605	0.000	99	175209	5.00	5.27	
12 1,1,2-Trichloro-1,2,2-trif	151	3.711	3.700	0.011	93	39444	5.00	5.62	
13 Iodomethane	142	3.794	3.782	0.012	99	68917	5.00	5.35	
14 Acrolein	56	4.137	4.126	0.011	95	18936	25.0	28.5	
15 3-Chloro-1-propene	39	4.338	4.339	-0.001	91	46807	5.00	5.60	
16 Isopropyl alcohol	45	4.492	4.492	0.000	23	15442	50.0	60.0	
17 Methylene Chloride	84	4.528	4.516	0.012	94	48468	5.00	5.39	
18 Acetone	43	4.646	4.634	0.012	34	4448	5.00	4.64	a
19 trans-1,2-Dichloroethene	96	4.788	4.776	0.012	97	60082	5.00	5.67	
20 Methyl acetate	74	4.871	4.859	0.012	93	6647	25.0	25.4	
21 Hexane	86	4.942	4.930	0.012	81	17097	5.00	4.82	
22 Methyl tert-butyl ether	73	5.013	5.001	0.012	86	83556	5.00	5.19	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	96	27744	50.0	62.9	
24 Acetonitrile	41	5.368	5.368	0.000	94	20944	50.0	50.9	
25 Isopropyl ether	45	5.628	5.628	0.000	93	135396	5.00	5.30	
27 2-Chloro-1,3-butadiene	53	5.723	5.711	0.012	91	89158	5.00	5.22	
28 1,1-Dichloroethane	63	5.758	5.747	0.011	96	105920	5.00	5.54	
S 26 1,2-Dichloroethene, Total	96				0			11.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.853	5.853	0.000	98	85478	50.0	53.6	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	99	131998	5.00	5.21	
31 Vinyl acetate	43	6.196	6.185	0.011	98	58013	5.00	5.22	
32 cis-1,2-Dichloroethene	96	6.539	6.540	-0.001	80	59340	5.00	5.57	
33 2,2-Dichloropropane	77	6.693	6.682	0.011	87	65380	5.00	5.47	
34 Cyclohexane	84	6.788	6.788	0.000	88	98711	5.00	5.38	
35 Chlorobromomethane	128	6.812	6.812	0.000	97	16960	5.00	5.16	
36 Chloroform	83	6.942	6.942	0.000	93	90230	5.00	5.49	
37 Carbon tetrachloride	117	7.084	7.084	0.000	96	64959	5.00	5.24	
39 Ethyl acetate	45	7.167	7.155	0.012	95	4190	10.0	8.28	
38 Tetrahydrofuran	71	7.167	7.155	0.012	43	4617	10.0	9.67	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.012	83	34518	5.00	4.91	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	97	82778	5.00	5.42	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	99	81668	5.00	5.46	
43 2-Butanone (MEK)	43	7.391	7.380	0.011	97	8502	5.00	5.46	
124 Isooctane	57	7.522	7.522	0.000	93	282992	5.00	5.53	
117 n-Heptane	43	7.687	7.687	0.000	69	99136	5.00	5.76	
44 Benzene	78	7.687	7.687	0.000	96	233967	5.00	5.48	
45 Propionitrile	54	7.758	7.758	0.000	91	31826	50.0	53.0	
46 Methacrylonitrile	41	7.782	7.782	0.000	85	125529	50.0	57.0	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	-0.001	96	37659	5.00	5.24	
48 Tert-amyl methyl ether	73	7.888	7.888	0.000	96	97827	5.00	5.23	
49 1,2-Dichloroethane	62	7.959	7.959	0.000	98	51435	5.00	5.42	
50 Isobutyl alcohol	42	8.090	8.090	-0.001	92	15335	125.0	151.8	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1826937	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.421	0.012	88	101761	5.00	5.58	
53 Trichloroethene	95	8.456	8.456	0.000	95	58429	5.00	5.48	
54 n-Butanol	56	8.977	8.977	0.000	84	21995	125.0	153.9	
55 Dibromomethane	93	8.989	8.989	0.000	95	19054	5.00	5.30	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	94	50115	5.00	5.21	
123 Ethyl acrylate	55	9.214	9.202	0.012	1	29321	5.00	4.73	a
57 Dichlorobromomethane	83	9.214	9.214	0.000	98	56382	5.00	5.33	
58 Methyl methacrylate	69	9.450	9.450	0.000	86	32544	10.0	9.49	
59 1,4-Dioxane	88	9.486	9.486	0.000	1	4345	100.0	105.6	Ma
60 2-Chloroethyl vinyl ether	63	9.959	9.959	0.000	85	13560	5.00	4.28	
61 cis-1,3-Dichloropropene	75	10.006	10.007	-0.001	97	60517	5.00	4.94	
$ 62 Toluene-d8 (Surr)	98	10.243	10.231	0.012	94	178137	5.00	5.12	
63 Toluene	92	10.302	10.302	0.000	98	137117	5.00	5.25	
64 2-Nitropropane	43	10.598	10.598	0.000	88	7026	10.0	12.9	
65 Tetrachloroethene	164	10.752	10.752	0.000	95	42743	5.00	5.33	
66 4-Methyl-2-pentanone (MIBK	43	10.787	10.788	-0.001	89	16896	5.00	5.06	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	90	46746	5.00	4.83	
68 1,1,2-Trichloroethane	83	11.000	11.001	-0.001	90	24970	5.00	5.33	
69 Ethyl methacrylate	69	11.024	11.024	0.000	87	30925	5.00	4.63	
70 Chlorodibromomethane	129	11.190	11.190	0.000	87	27853	5.00	5.02	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	87	56366	5.00	5.44	
72 Ethylene Dibromide	107	11.426	11.427	-0.001	97	23966	5.00	5.17	
S 73 1,3-Dichloropropene, Total	75				0			9.77	
118 n-Butyl acetate	43	11.628	11.628	0.000	92	29431	5.00	4.90	
74 2-Hexanone	43	11.710	11.711	-0.001	74	11545	5.00	4.91	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	89	1093627	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	0.000	68	101151	5.00	5.51	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	11.994	11.995	0.000	96	139972	5.00	5.67	
78 Ethylbenzene	91	12.030	12.030	0.000	98	276359	5.00	5.44	
79 1,1,1,2-Tetrachloroethane	131	12.065	12.066	-0.001	89	39338	5.00	5.50	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	99	95522	5.00	5.16	
82 o-Xylene	106	12.598	12.598	0.000	97	88813	5.00	5.22	
83 Styrene	104	12.657	12.657	0.000	94	133429	5.00	5.25	
84 Bromoform	173	12.669	12.669	0.000	93	13719	5.00	5.12	
85 Isopropylbenzene	105	12.906	12.906	0.000	96	248382	5.00	5.49	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	84	55834	5.00	4.99	
87 Bromobenzene	156	13.260	13.261	-0.001	93	47330	5.00	5.59	
88 N-Propylbenzene	91	13.296	13.296	0.000	99	308155	5.00	5.66	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	94	36094	5.00	6.34	
90 2-Chlorotoluene	91	13.438	13.438	0.000	95	181904	5.00	5.83	
91 1,3,5-Trimethylbenzene	105	13.473	13.474	-0.001	93	200882	5.00	5.67	
92 1,2,3-Trichloropropane	110	13.485	13.485	0.000	81	9334	5.00	5.79	
93 trans-1,4-Dichloro-2-buten	53	13.521	13.521	0.000	76	9599	5.00	6.10	
94 Cyclohexanone	55	13.521	13.533	-0.012	79	10347	50.0	76.6	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	177871	5.00	5.71	
96 tert-Butylbenzene	119	13.769	13.769	0.000	92	174360	5.00	5.69	
97 1,2,4-Trimethylbenzene	105	13.828	13.829	-0.001	97	199729	5.00	5.70	
98 sec-Butylbenzene	105	13.923	13.923	0.000	94	279358	5.00	5.76	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	96	214890	5.00	5.64	
100 1,3-Dichlorobenzene	146	14.112	14.113	-0.001	97	99107	5.00	5.83	
* 101 1,4-Dichlorobenzene-d4	152	14.183	14.184	-0.001	97	487160	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	94	101187	5.00	6.10	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	98	195843	5.00	5.98	
103 n-Butylbenzene	134	14.420	14.420	0.000	96	54089	5.00	5.48	
120 Benzyl chloride	126	14.420	14.420	0.000	89	7687	5.00	4.65	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	96	86109	5.00	6.10	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	79	3986	5.00	5.98	
106 n-Nonyl Aldehyde	57	15.272	15.272	0.000	56	22784	5.00	6.49	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	72064	5.00	6.08	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	96	40430	5.00	6.28	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	94	58551	5.00	5.42	
110 Naphthalene	128	16.100	16.101	-0.001	97	93555	5.00	5.70	
111 1,2,3-Trichlorobenzene	180	16.254	16.254	0.000	94	48700	5.00	5.33	
S 112 Xylenes, Total	106				0			10.4	
S 113 Trihalomethanes, Total	1				0			21.0	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

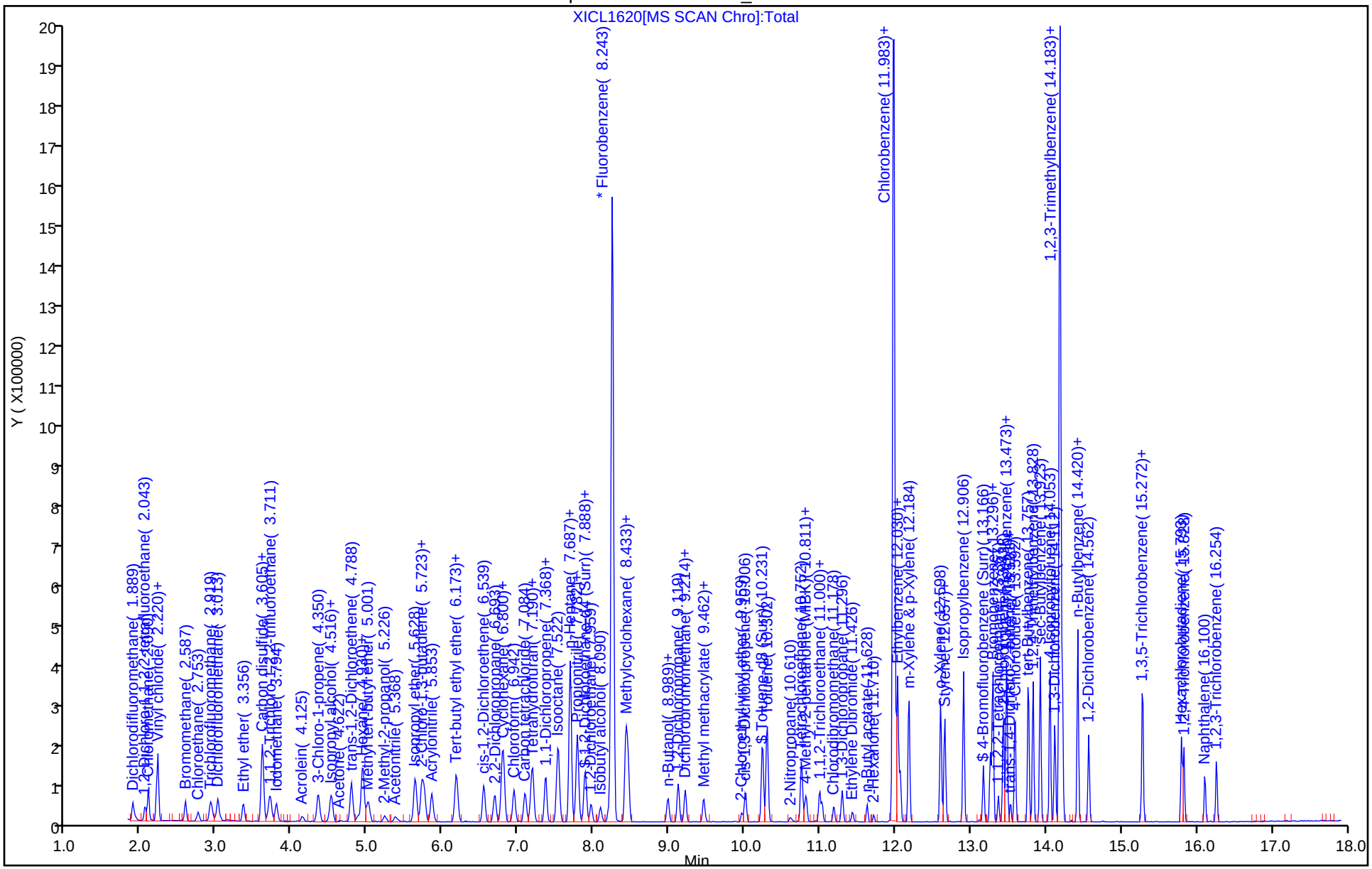
8260 NewWkMix_00269	Amount Added: 1.00	Units: uL	
8260 Surr 25_00085	Amount Added: 1.00	Units: uL	
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:30:31 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1620.D

Injection Date:	03-Apr-2018 22:42:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	IC			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		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

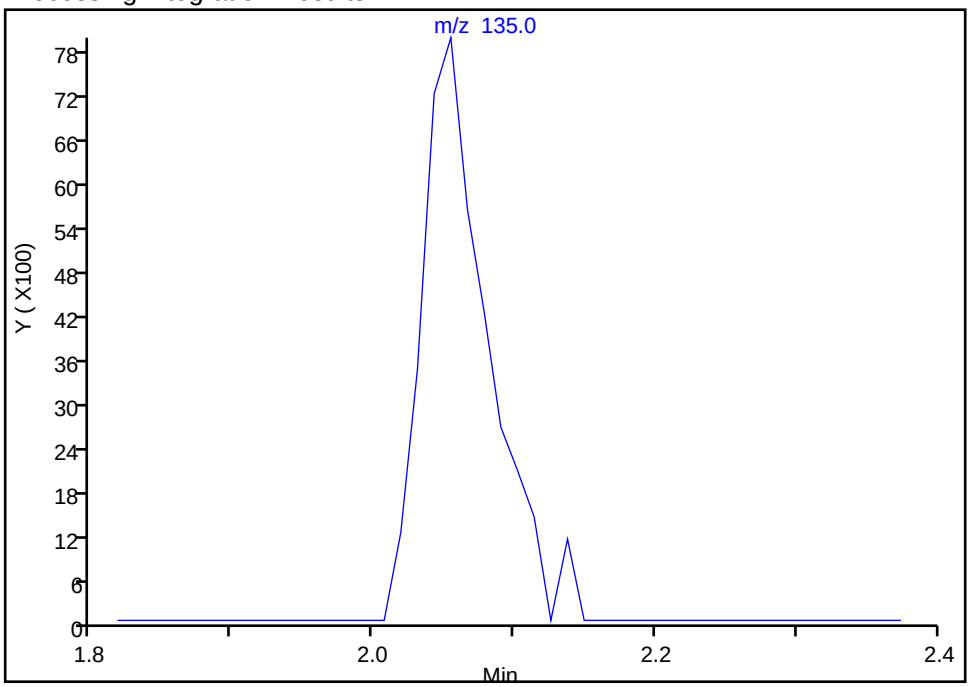
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Injection Date: 03-Apr-2018 22:42:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

2 1,2-Dichloro-1,1,2,2-tetrafluoroethane, CAS: 76-14-2

Signal: 1

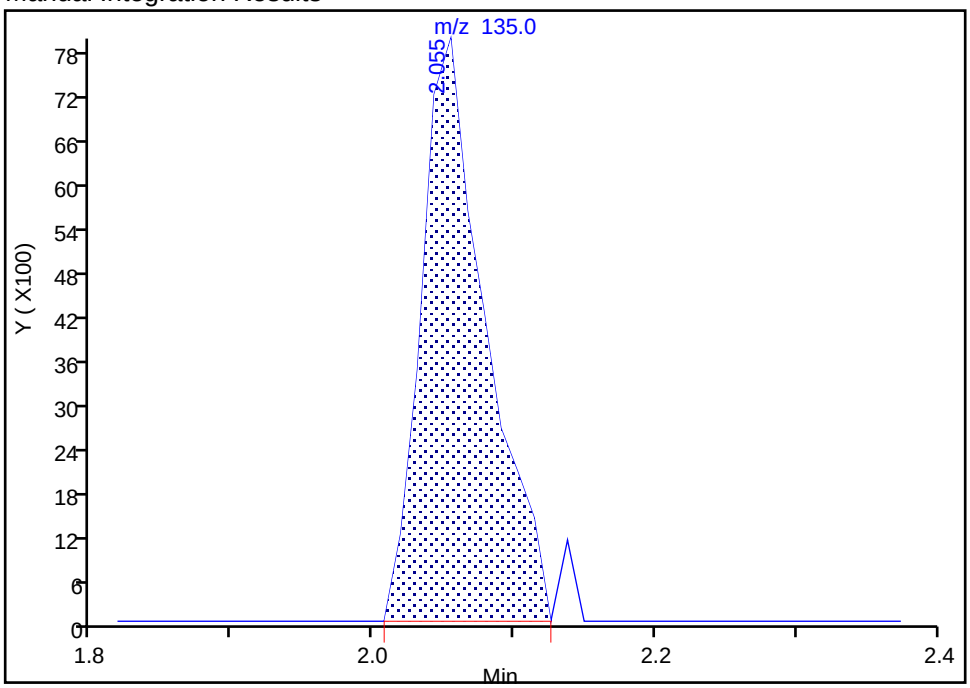
Processing Integration Results

Not Detected
Expected RT: 2.04



Manual Integration Results

RT: 2.05
Area: 25227
Amount: 5.151561
Amount Units: ug/l



Reviewer: hannj, 04-Apr-2018 14:32:01
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

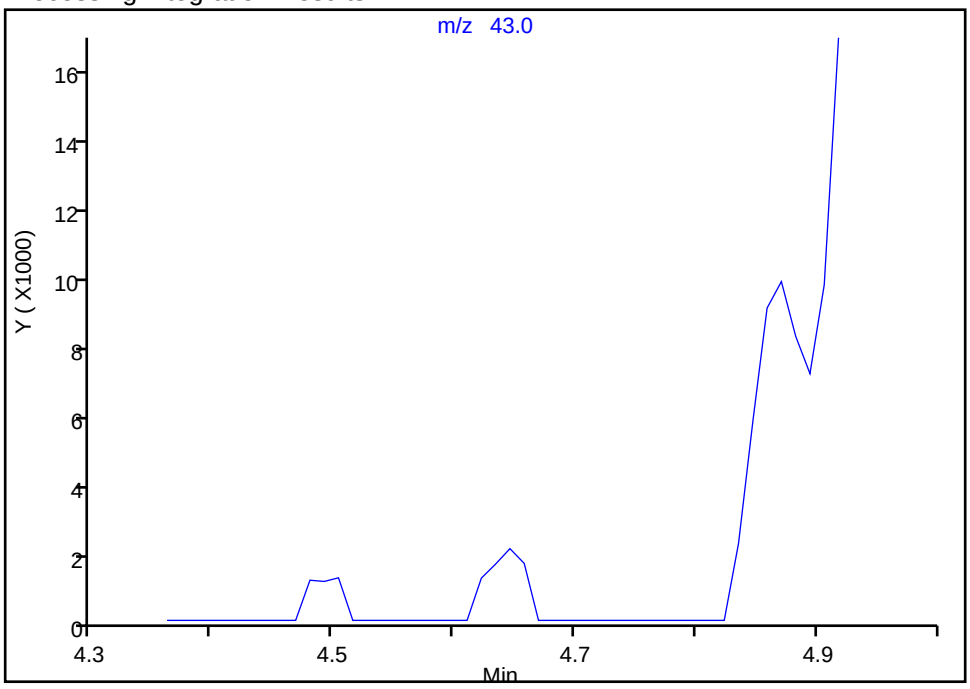
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Injection Date: 03-Apr-2018 22:42:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

18 Acetone, CAS: 67-64-1

Signal: 1

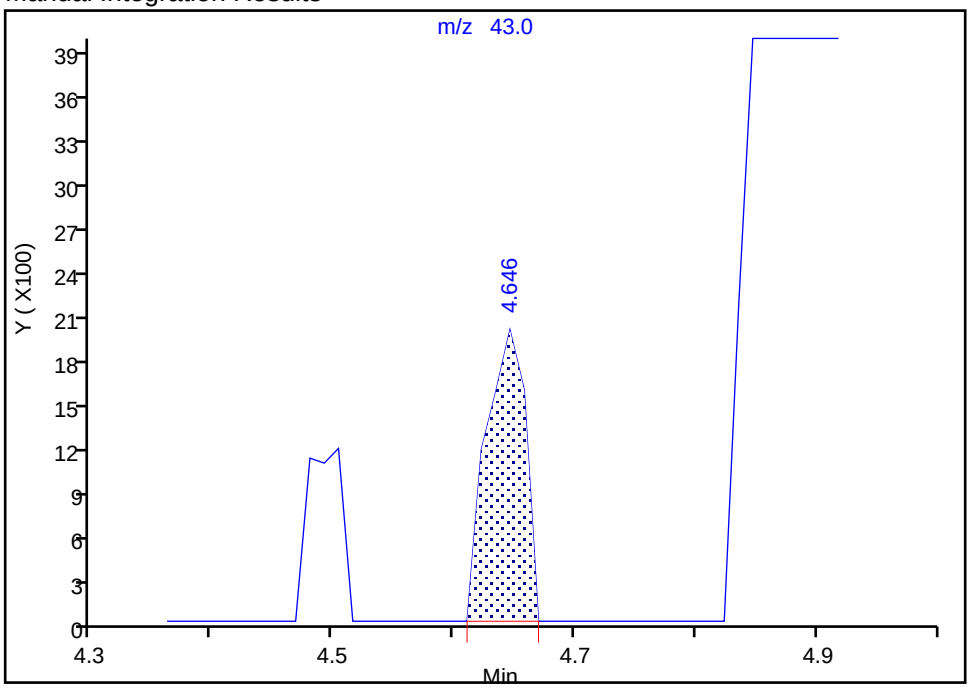
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.65
Area: 4448
Amount: 4.641325
Amount Units: ug/l



Reviewer: hannj, 04-Apr-2018 14:32:15
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

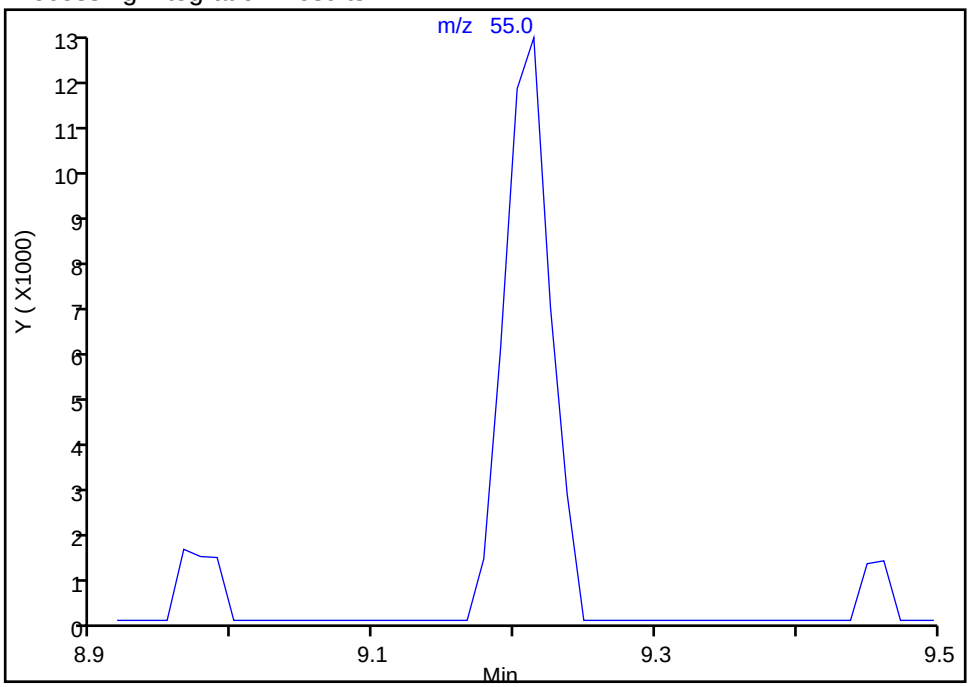
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Injection Date: 03-Apr-2018 22:42:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

123 Ethyl acrylate, CAS: 140-88-5

Signal: 1

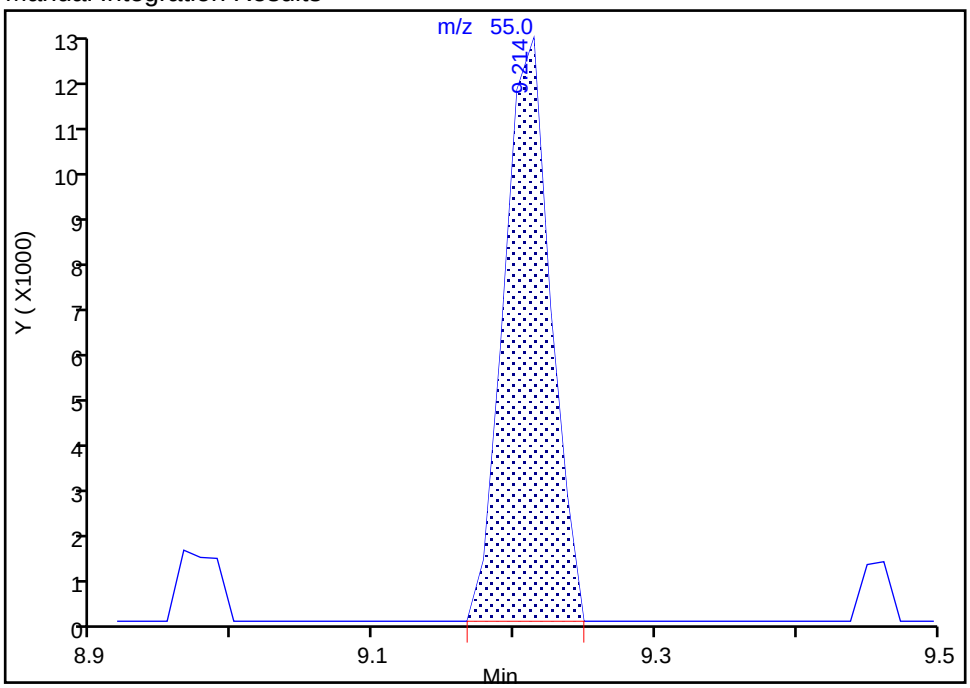
Not Detected
Expected RT: 9.20

Processing Integration Results



Manual Integration Results

RT: 9.21
Area: 29321
Amount: 4.729088
Amount Units: ug/l



Reviewer: hannj, 04-Apr-2018 14:32:35
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

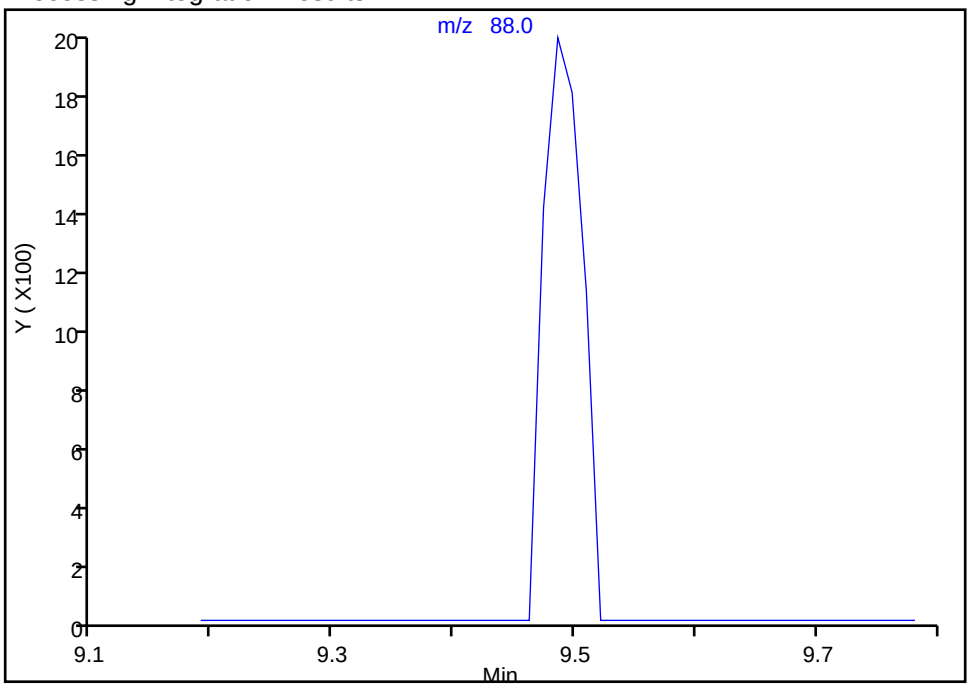
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Injection Date: 03-Apr-2018 22:42:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

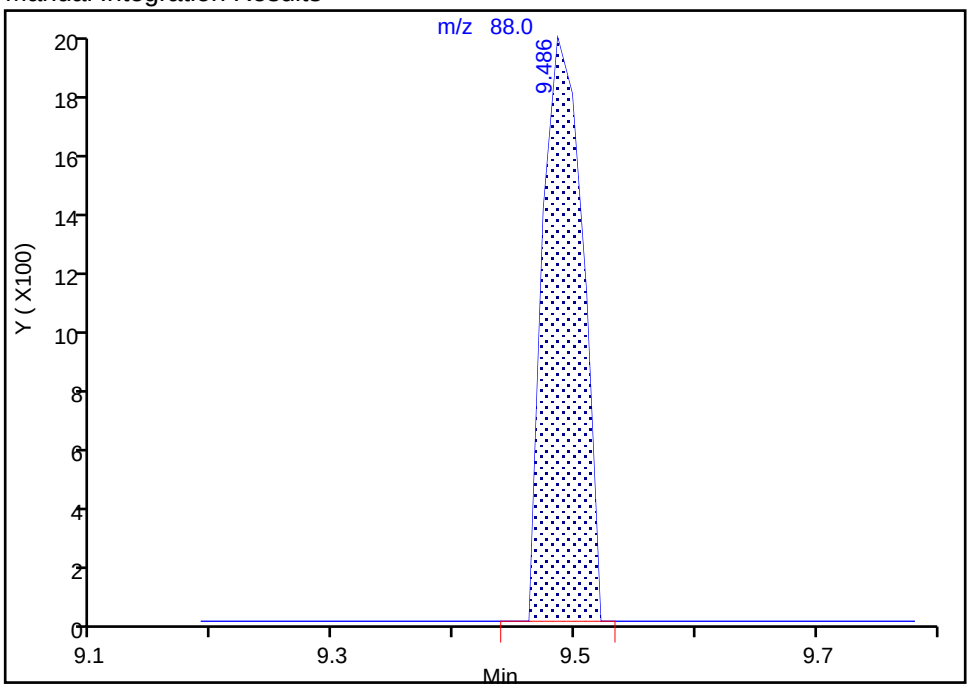
Not Detected
Expected RT: 9.49

Processing Integration Results



Manual Integration Results

RT: 9.49
Area: 4345
Amount: 105.5726
Amount Units: ug/l



Reviewer: hannj, 04-Apr-2018 14:32:47
Audit Action: Manually Integrated Audit Reason: Missed Peak

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1621.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 03-Apr-2018 23:07:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012973-006
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:30:33 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 14:34:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.877	0.012	99	125865	10.0	10.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	97	49617	10.0	10.2	
3 Chloromethane	50	2.090	2.090	0.000	98	134682	10.0	10.2	
4 Vinyl chloride	62	2.197	2.197	0.000	97	142919	10.0	10.2	
121 Butadiene	39	2.220	2.209	0.011	80	71737	10.0	10.4	
5 Bromomethane	94	2.587	2.576	0.011	91	61133	10.0	10.1	
6 Chloroethane	64	2.753	2.741	0.012	97	52913	10.0	9.76	
7 Trichlorofluoromethane	101	2.919	2.907	0.012	98	133706	10.0	10.2	
122 Dichlorofluoromethane	67	3.013	3.001	0.012	96	141125	10.0	10.3	
8 Ethyl ether	74	3.356	3.345	0.011	88	43797	10.0	9.78	
9 1,1-Dichloroethene	96	3.605	3.593	0.012	93	95799	10.0	9.86	
10 Carbon disulfide	76	3.605	3.605	0.000	99	320494	10.0	9.69	
11 Ethanol	45	3.605	3.605	0.000	24	13082	400.0	321.0	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	94	68553	10.0	9.82	
13 Iodomethane	142	3.794	3.782	0.012	99	123344	10.0	9.62	
14 Acrolein	56	4.137	4.126	0.011	97	29549	50.0	44.7	
15 3-Chloro-1-propene	39	4.350	4.339	0.011	93	82192	10.0	9.88	
16 Isopropyl alcohol	45	4.492	4.492	0.000	25	17718	100.0	71.5	
17 Methylene Chloride	84	4.528	4.516	0.012	93	87397	10.0	9.76	
18 Acetone	43	4.646	4.634	0.012	98	9547	10.0	10.0	
19 trans-1,2-Dichloroethene	96	4.788	4.776	0.012	96	101331	10.0	9.61	
20 Methyl acetate	74	4.871	4.859	0.012	93	11195	50.0	43.0	
21 Hexane	86	4.930	4.930	0.000	81	35029	10.0	9.91	
22 Methyl tert-butyl ether	73	5.013	5.001	0.012	1	156441	10.0	9.75	a
23 2-Methyl-2-propanol	59	5.238	5.226	0.012	97	35433	100.0	84.1	
24 Acetonitrile	41	5.368	5.368	0.000	99	39272	100.0	95.9	
25 Isopropyl ether	45	5.628	5.628	0.000	93	244487	10.0	9.61	
27 2-Chloro-1,3-butadiene	53	5.723	5.711	0.012	91	165292	10.0	9.73	
28 1,1-Dichloroethane	63	5.758	5.747	0.011	95	185344	10.0	9.74	
S 26 1,2-Dichloroethene, Total	96				0			19.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.853	5.853	0.000	99	155527	100.0	97.9	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	98	236493	10.0	9.38	
31 Vinyl acetate	43	6.196	6.185	0.011	98	108239	10.0	9.79	
32 cis-1,2-Dichloroethene	96	6.539	6.540	-0.001	81	99275	10.0	9.37	
33 2,2-Dichloropropane	77	6.693	6.682	0.011	88	121410	10.0	10.2	
34 Cyclohexane	84	6.788	6.788	0.000	88	176271	10.0	9.65	
35 Chlorobromomethane	128	6.812	6.812	0.000	97	32314	10.0	9.88	
36 Chloroform	83	6.942	6.942	0.000	93	157260	10.0	9.61	
37 Carbon tetrachloride	117	7.084	7.084	0.000	95	119195	10.0	9.67	
38 Tetrahydrofuran	71	7.155	7.155	0.000	46	8430	20.0	17.7	
39 Ethyl acetate	45	7.167	7.155	0.012	96	9975	20.0	19.8	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.012	92	70405	10.0	10.1	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	97	148416	10.0	9.76	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	99	143104	10.0	9.61	
43 2-Butanone (MEK)	43	7.391	7.380	0.011	96	14599	10.0	9.41	
124 Isooctane	57	7.522	7.522	0.000	93	509852	10.0	10.0	
44 Benzene	78	7.687	7.687	0.000	96	416007	10.0	9.79	
117 n-Heptane	43	7.687	7.687	0.000	69	179849	10.0	10.5	
45 Propionitrile	54	7.758	7.758	0.000	96	56204	100.0	94.0	
46 Methacrylonitrile	41	7.782	7.782	0.000	86	227144	100.0	103.6	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	97	70851	10.0	9.91	
48 Tert-amyl methyl ether	73	7.888	7.888	0.000	97	175196	10.0	9.41	
49 1,2-Dichloroethane	62	7.959	7.959	0.000	97	94241	10.0	9.97	
50 Isobutyl alcohol	42	8.090	8.090	0.000	94	19415	250.0	193.1	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1818587	50.0	50.0	
52 Methylcyclohexane	55	8.421	8.421	0.000	88	180296	10.0	9.94	
53 Trichloroethene	95	8.456	8.456	0.000	97	100215	10.0	9.44	
54 n-Butanol	56	8.977	8.977	0.000	54	24394	250.0	176.1	
55 Dibromomethane	93	8.989	8.989	0.000	93	34221	10.0	9.56	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	96	93001	10.0	9.71	
123 Ethyl acrylate	55	9.214	9.202	0.012	66	53523	10.0	8.67	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	98290	10.0	9.33	
58 Methyl methacrylate	69	9.462	9.450	0.012	89	62532	20.0	18.3	
59 1,4-Dioxane	88	9.486	9.486	0.000	1	6458	200.0	157.6	Ma
60 2-Chloroethyl vinyl ether	63	9.959	9.959	0.000	87	27740	10.0	8.79	
61 cis-1,3-Dichloropropene	75	10.006	10.007	-0.001	98	112862	10.0	9.25	
$ 62 Toluene-d8 (Surr)	98	10.243	10.231	0.012	94	338602	10.0	9.82	
63 Toluene	92	10.302	10.302	0.000	98	250288	10.0	9.68	
64 2-Nitropropane	43	10.598	10.598	0.000	99	12302	20.0	19.1	
65 Tetrachloroethene	164	10.752	10.752	0.000	95	76899	10.0	9.67	
66 4-Methyl-2-pentanone (MIBK	43	10.787	10.788	-0.001	89	30118	10.0	9.10	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	90	87621	10.0	9.14	
68 1,1,2-Trichloroethane	83	11.000	11.001	-0.001	90	44131	10.0	9.51	
69 Ethyl methacrylate	69	11.024	11.024	0.000	85	57088	10.0	8.62	
70 Chlorodibromomethane	129	11.190	11.190	0.000	89	48413	10.0	8.80	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	86	100841	10.0	9.82	
72 Ethylene Dibromide	107	11.426	11.427	-0.001	97	42979	10.0	9.36	
S 73 1,3-Dichloropropene, Total	75				0			18.4	
118 n-Butyl acetate	43	11.628	11.628	0.000	93	51374	10.0	8.63	
74 2-Hexanone	43	11.710	11.711	-0.001	90	21200	10.0	9.09	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	89	1083734	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	0.000	81	176901	10.0	9.72	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	11.994	11.995	0.000	97	239721	10.0	9.80	
78 Ethylbenzene	91	12.030	12.030	0.000	98	486195	10.0	9.65	
79 1,1,1,2-Tetrachloroethane	131	12.065	12.066	-0.001	92	68075	10.0	9.60	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	100	174453	10.0	9.50	
82 o-Xylene	106	12.598	12.598	0.000	97	156981	10.0	9.31	
83 Styrene	104	12.657	12.657	0.000	94	236181	10.0	9.39	
84 Bromoform	173	12.669	12.669	0.000	94	23069	10.0	8.62	
85 Isopropylbenzene	105	12.906	12.906	0.000	96	445375	10.0	9.85	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	83	109364	10.0	9.78	
87 Bromobenzene	156	13.261	13.261	0.000	93	81534	10.0	9.64	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	548161	10.0	10.1	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	94	54351	10.0	9.55	
90 2-Chlorotoluene	91	13.438	13.438	0.000	95	303360	10.0	9.73	
91 1,3,5-Trimethylbenzene	105	13.474	13.474	0.000	93	353936	10.0	9.99	
92 1,2,3-Trichloropropane	110	13.485	13.485	0.000	80	15992	10.0	9.93	
93 trans-1,4-Dichloro-2-buten	53	13.521	13.521	0.000	79	14616	10.0	9.29	
94 Cyclohexanone	55	13.521	13.533	-0.012	65	10844	100.0	80.9	
95 4-Chlorotoluene	91	13.592	13.592	0.000	99	304638	10.0	9.79	
96 tert-Butylbenzene	119	13.769	13.769	0.000	92	305440	10.0	9.98	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	-0.001	98	345371	10.0	9.86	
98 sec-Butylbenzene	105	13.923	13.923	0.000	94	487767	10.0	10.1	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	96	374194	10.0	9.82	
100 1,3-Dichlorobenzene	146	14.113	14.113	-0.001	97	165994	10.0	9.76	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	97	486902	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	94	161469	10.0	9.74	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	97	323963	10.0	9.90	
120 Benzyl chloride	126	14.420	14.420	0.000	89	13534	10.0	8.20	
103 n-Butylbenzene	134	14.420	14.420	0.000	96	94683	10.0	9.60	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	96	135701	10.0	9.62	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	1	5693	10.0	8.54	
106 n-Nonyl Aldehyde	57	15.272	15.272	0.000	50	26198	10.0	7.47	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	119443	10.0	10.1	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	96	66066	10.0	10.3	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	93	86427	10.0	8.97	
110 Naphthalene	128	16.100	16.101	-0.001	97	129911	10.0	8.61	
111 1,2,3-Trichlorobenzene	180	16.254	16.254	0.000	94	69511	10.0	8.77	
S 112 Xylenes, Total	106				0			18.8	
S 113 Trihalomethanes, Total	1				0			36.4	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

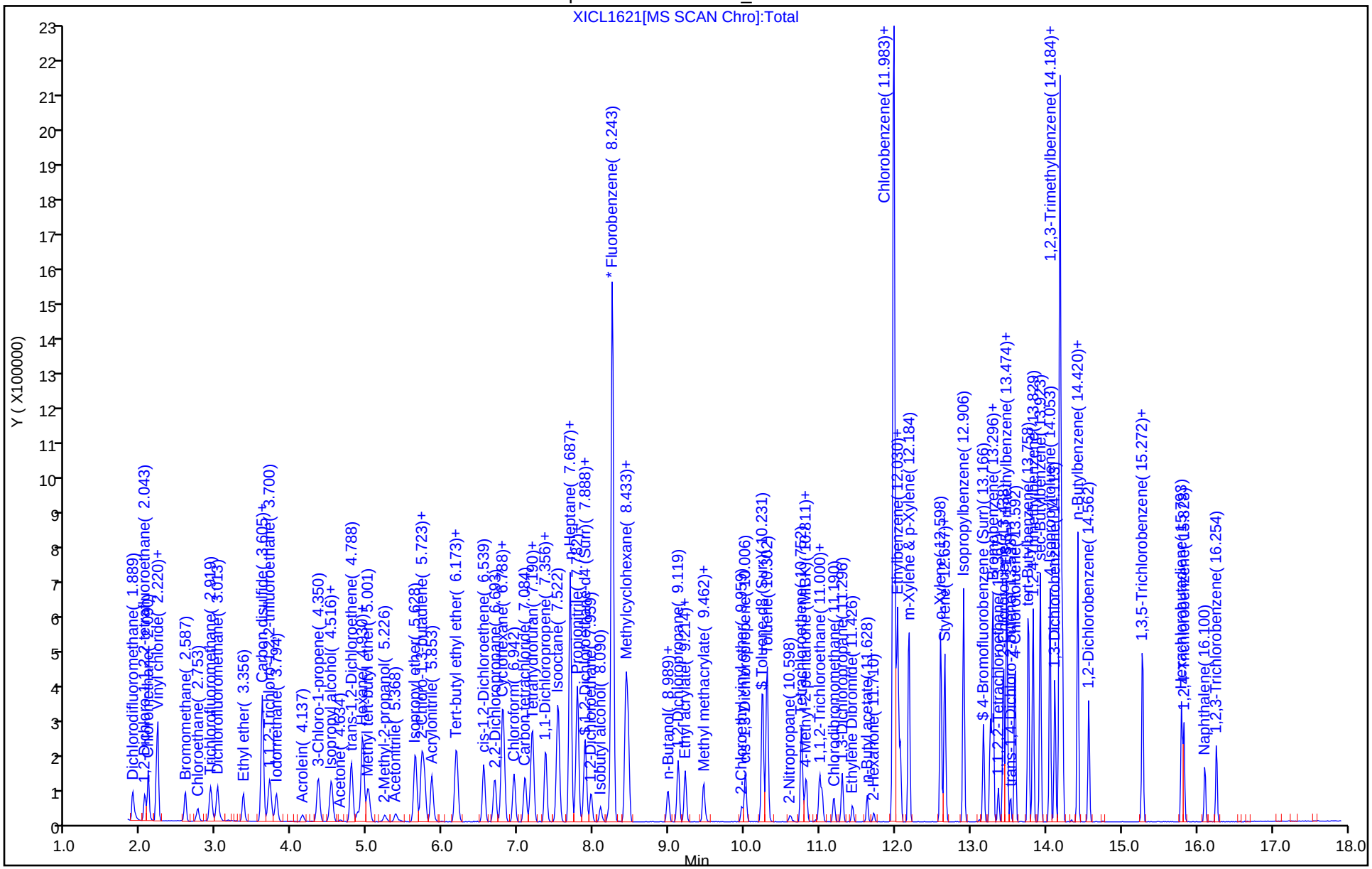
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8260 Surr 25_00085	Amount Added: 2.00	Units: uL	
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:30:36 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1621.D

Injection Date:	03-Apr-2018 23:07:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

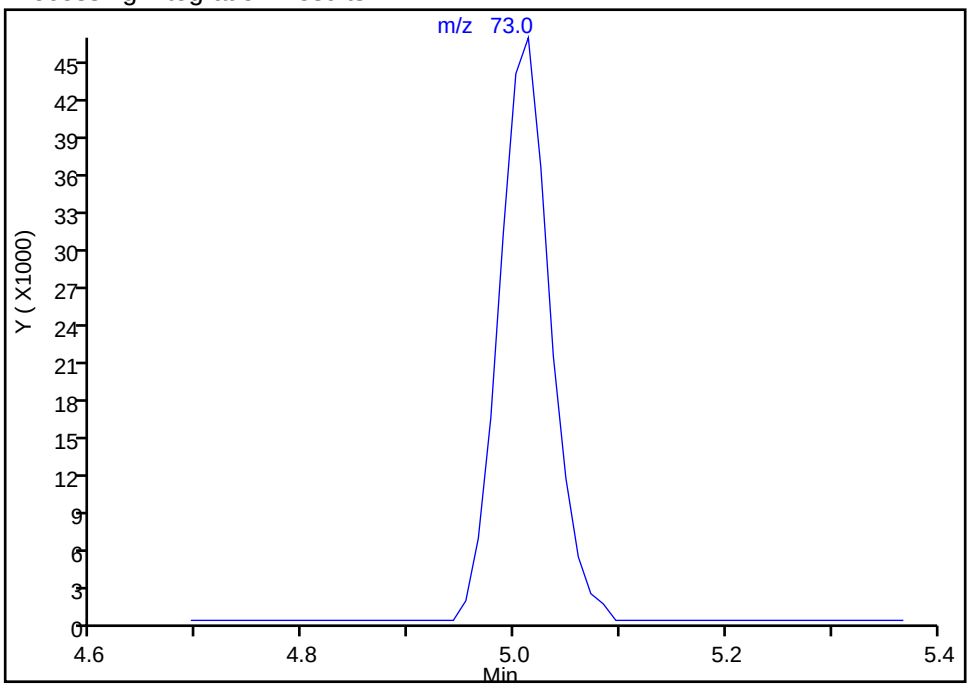
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Injection Date: 03-Apr-2018 23:07:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

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

Signal: 1

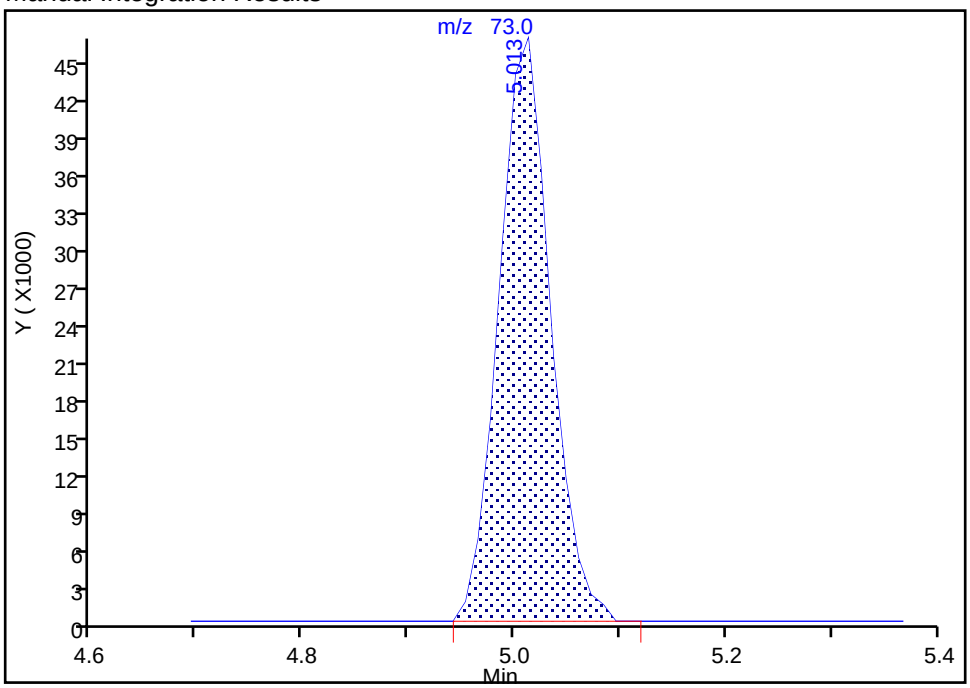
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.01
Area: 156441
Amount: 9.754878
Amount Units: ug/l



Reviewer: hannj, 04-Apr-2018 14:33:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

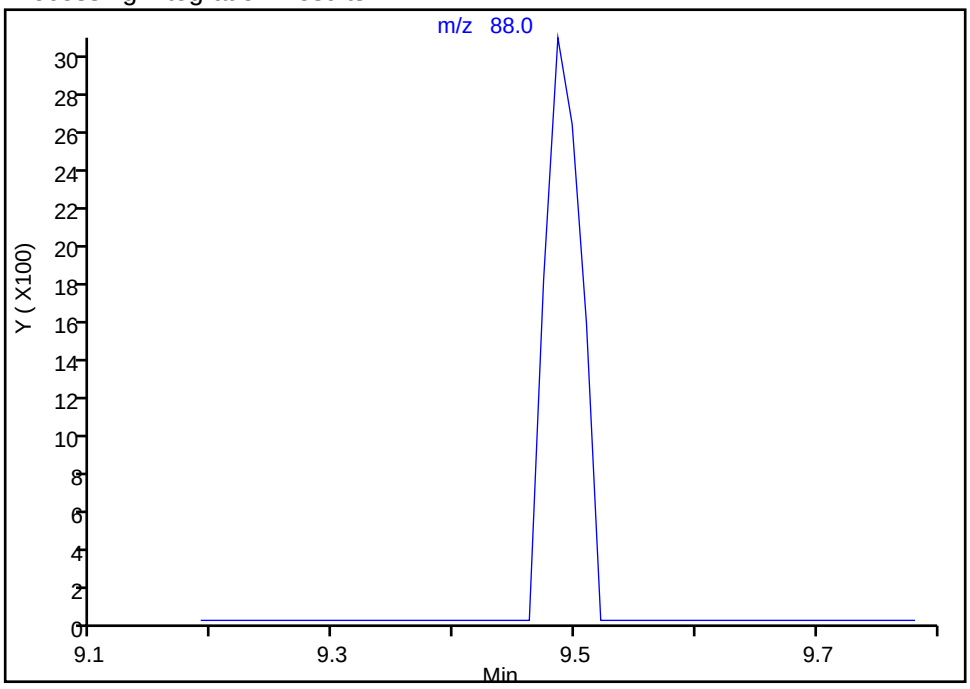
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Injection Date: 03-Apr-2018 23:07:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

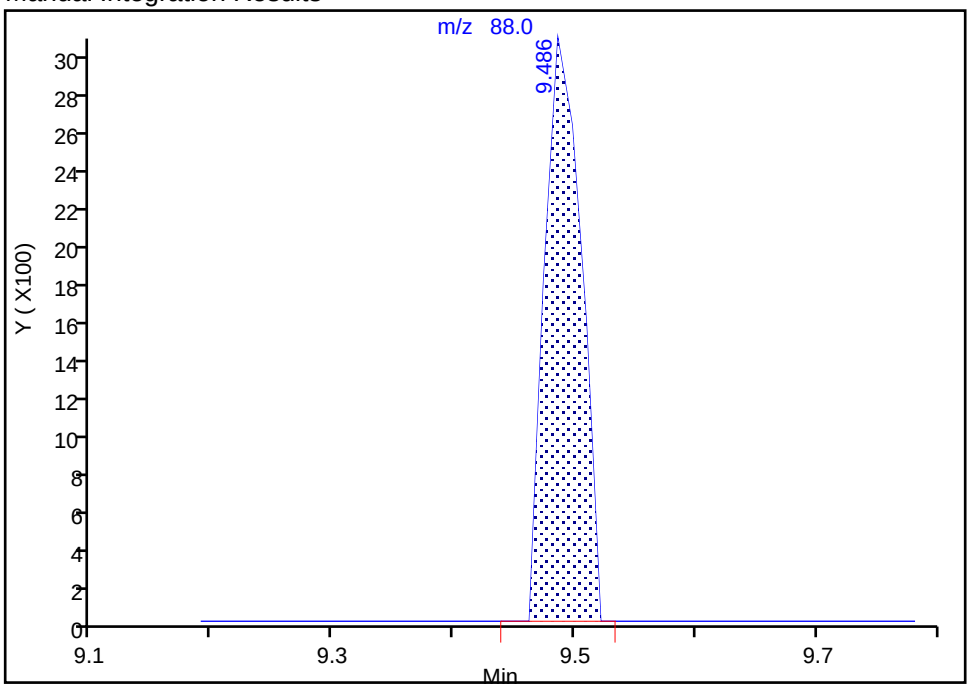
Not Detected
Expected RT: 9.49

Processing Integration Results



Manual Integration Results

RT: 9.49
Area: 6458
Amount: 157.6336
Amount Units: ug/l



Reviewer: hannj, 04-Apr-2018 14:34:05
Audit Action: Manually Integrated Audit Reason: Missed Peak

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1622.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 03-Apr-2018 23:32:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012973-007
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:30:39 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 14:39:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.877	0.012	99	250968	20.0	20.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	96501	20.0	19.3	
3 Chloromethane	50	2.090	2.090	0.000	98	267582	20.0	19.7	
4 Vinyl chloride	62	2.197	2.197	0.000	97	286068	20.0	19.8	
121 Butadiene	39	2.220	2.209	0.011	79	146566	20.0	20.8	
5 Bromomethane	94	2.587	2.576	0.011	91	125314	20.0	20.2	
6 Chloroethane	64	2.753	2.741	0.012	97	107164	20.0	21.1	
7 Trichlorofluoromethane	101	2.919	2.907	0.012	98	266562	20.0	19.9	
122 Dichlorofluoromethane	67	3.013	3.001	0.012	96	282771	20.0	20.1	
8 Ethyl ether	74	3.356	3.345	0.011	88	88639	20.0	19.3	
9 1,1-Dichloroethene	96	3.605	3.593	0.012	94	192726	20.0	19.3	
11 Ethanol	45	3.593	3.605	-0.012	28	31493	800.0	752.7	
10 Carbon disulfide	76	3.605	3.605	0.000	99	663169	20.0	19.5	
12 1,1,2-Trichloro-1,2,2-trif	151	3.711	3.700	0.011	95	136382	20.0	19.0	
13 Iodomethane	142	3.794	3.782	0.012	99	255458	20.0	19.4	
14 Acrolein	56	4.137	4.126	0.011	98	65711	100.0	96.9	
15 3-Chloro-1-propene	39	4.350	4.339	0.011	93	168115	20.0	19.7	
16 Isopropyl alcohol	45	4.492	4.492	0.000	97	43135	200.0	189.7	
17 Methylene Chloride	84	4.516	4.516	0.000	93	180219	20.0	19.6	
18 Acetone	43	4.634	4.634	0.000	95	19593	20.0	20.0	
19 trans-1,2-Dichloroethene	96	4.788	4.776	0.012	96	204802	20.0	18.9	
20 Methyl acetate	74	4.871	4.859	0.012	94	25388	100.0	94.9	
21 Hexane	86	4.930	4.930	0.000	82	71422	20.0	19.7	
22 Methyl tert-butyl ether	73	5.001	5.001	0.000	1	320247	20.0	19.5	a
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	98	77121	200.0	190.4	
24 Acetonitrile	41	5.368	5.368	0.000	99	82617	200.0	196.6	
25 Isopropyl ether	45	5.628	5.628	0.000	94	503665	20.0	19.3	
27 2-Chloro-1,3-butadiene	53	5.723	5.711	0.012	91	342416	20.0	19.6	
28 1,1-Dichloroethane	63	5.758	5.747	0.011	96	384070	20.0	19.7	
S 26 1,2-Dichloroethene, Total	96				0			37.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.853	5.853	0.000	100	317012	200.0	194.4	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	98	487460	20.0	18.8	
31 Vinyl acetate	43	6.184	6.185	-0.001	98	223600	20.0	19.7	
32 cis-1,2-Dichloroethene	96	6.539	6.540	-0.001	81	205321	20.0	18.9	
33 2,2-Dichloropropane	77	6.681	6.682	-0.001	87	240227	20.0	19.7	
34 Cyclohexane	84	6.788	6.788	0.000	86	367215	20.0	19.6	
35 Chlorobromomethane	128	6.812	6.812	0.000	97	65935	20.0	19.6	
36 Chloroform	83	6.942	6.942	0.000	92	322540	20.0	19.2	
37 Carbon tetrachloride	117	7.084	7.084	0.000	97	245565	20.0	19.4	
39 Ethyl acetate	45	7.167	7.155	0.012	98	18952	40.0	36.7	
38 Tetrahydrofuran	71	7.155	7.155	0.000	88	18928	40.0	38.8	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.012	92	141953	20.0	19.7	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	98	309067	20.0	19.8	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	99	299175	20.0	19.6	
43 2-Butanone (MEK)	43	7.391	7.380	0.011	78	31440	20.0	19.7	
124 Isooctane	57	7.522	7.522	0.000	93	1025568	20.0	19.6	
117 n-Heptane	43	7.687	7.687	0.000	69	353679	20.0	20.1	
44 Benzene	78	7.687	7.687	0.000	96	826726	20.0	19.0	
45 Propionitrile	54	7.758	7.758	0.000	95	121131	200.0	197.5	
46 Methacrylonitrile	41	7.782	7.782	0.000	85	451669	200.0	200.7	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	97	150972	20.0	20.6	
48 Tert-amyl methyl ether	73	7.888	7.888	0.000	98	361563	20.0	18.9	
49 1,2-Dichloroethane	62	7.959	7.959	0.000	98	187802	20.0	19.4	
50 Isobutyl alcohol	42	8.090	8.090	0.000	95	43147	500.0	418.0	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1866848	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.421	0.012	89	366908	20.0	19.7	
53 Trichloroethene	95	8.456	8.456	0.000	95	210162	20.0	19.3	
54 n-Butanol	56	8.977	8.977	0.000	78	56182	500.0	440.5	
55 Dibromomethane	93	8.989	8.989	0.000	97	70163	20.0	19.1	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	97	188957	20.0	19.2	
123 Ethyl acrylate	55	9.202	9.202	0.000	97	117949	20.0	18.6	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	205042	20.0	19.0	
58 Methyl methacrylate	69	9.462	9.450	0.012	88	131674	40.0	37.6	
59 1,4-Dioxane	88	9.486	9.486	0.000	47	16326	400.0	388.2	a
60 2-Chloroethyl vinyl ether	63	9.959	9.959	0.000	89	60618	20.0	18.7	
61 cis-1,3-Dichloropropene	75	10.006	10.007	-0.001	98	235969	20.0	18.8	
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	699496	20.0	20.0	
63 Toluene	92	10.302	10.302	0.000	99	509556	20.0	19.4	
64 2-Nitropropane	43	10.598	10.598	0.000	92	29740	40.0	38.3	
65 Tetrachloroethene	164	10.752	10.752	0.000	95	151786	20.0	18.8	
66 4-Methyl-2-pentanone (MIBK	43	10.787	10.788	-0.001	90	62468	20.0	18.6	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	89	184467	20.0	19.0	
68 1,1,2-Trichloroethane	83	11.000	11.001	-0.001	90	92096	20.0	19.6	
69 Ethyl methacrylate	69	11.024	11.024	0.000	87	124447	20.0	18.5	
70 Chlorodibromomethane	129	11.190	11.190	0.000	91	103661	20.0	18.6	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	87	202180	20.0	19.4	
72 Ethylene Dibromide	107	11.426	11.427	-0.001	99	88321	20.0	19.0	
S 73 1,3-Dichloropropene, Total	75				0			37.8	
118 n-Butyl acetate	43	11.628	11.628	0.000	93	109329	20.0	18.1	
74 2-Hexanone	43	11.710	11.711	-0.001	91	45446	20.0	19.2	
* 76 Chlorobenzene-d5	117	11.983	11.971	0.012	89	1099074	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	0.000	92	360248	20.0	19.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	11.994	11.995	0.000	97	482253	20.0	19.4	
78 Ethylbenzene	91	12.030	12.030	0.000	98	971872	20.0	19.0	
79 1,1,1,2-Tetrachloroethane	131	12.065	12.066	-0.001	93	135959	20.0	18.9	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	100	354735	20.0	19.1	
82 o-Xylene	106	12.598	12.598	0.000	97	319576	20.0	18.7	
83 Styrene	104	12.657	12.657	0.000	94	488383	20.0	19.1	
84 Bromoform	173	12.669	12.669	0.000	96	49535	20.0	18.6	
85 Isopropylbenzene	105	12.906	12.906	0.000	96	894477	20.0	19.8	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	84	219027	20.0	19.6	
87 Bromobenzene	156	13.261	13.261	0.000	94	160500	20.0	19.0	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	1091624	20.0	20.1	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	94	106232	20.0	18.7	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	604427	20.0	19.4	
91 1,3,5-Trimethylbenzene	105	13.474	13.474	0.000	93	702528	20.0	19.9	
92 1,2,3-Trichloropropane	110	13.485	13.485	0.000	80	32221	20.0	20.0	
93 trans-1,4-Dichloro-2-buten	53	13.521	13.521	0.000	84	29377	20.0	18.7	
94 Cyclohexanone	55	13.521	13.533	-0.012	70	22782	200.0	183.7	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	607384	20.0	19.6	
96 tert-Butylbenzene	119	13.769	13.769	0.000	92	593001	20.0	19.4	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	97	692222	20.0	19.8	
98 sec-Butylbenzene	105	13.923	13.923	0.000	94	955654	20.0	19.8	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	96	751977	20.0	19.8	
100 1,3-Dichlorobenzene	146	14.113	14.113	-0.001	97	325399	20.0	19.2	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	95	485904	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	94	313799	20.0	19.0	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	98	639439	20.0	19.6	
103 n-Butylbenzene	134	14.420	14.420	0.000	97	190764	20.0	19.4	
120 Benzyl chloride	126	14.420	14.420	0.000	89	28635	20.0	17.4	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	96	269521	20.0	19.1	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	84	11810	20.0	17.8	
106 n-Nonyl Aldehyde	57	15.272	15.272	0.000	51	55359	20.0	15.8	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	97	225702	20.0	19.1	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	97	122905	20.0	19.1	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	94	166498	20.0	19.2	
110 Naphthalene	128	16.100	16.101	-0.001	97	256954	20.0	18.8	
111 1,2,3-Trichlorobenzene	180	16.254	16.254	0.000	94	133507	20.0	19.4	
S 112 Xylenes, Total	106				0			37.7	
S 113 Trihalomethanes, Total	1				0			75.3	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

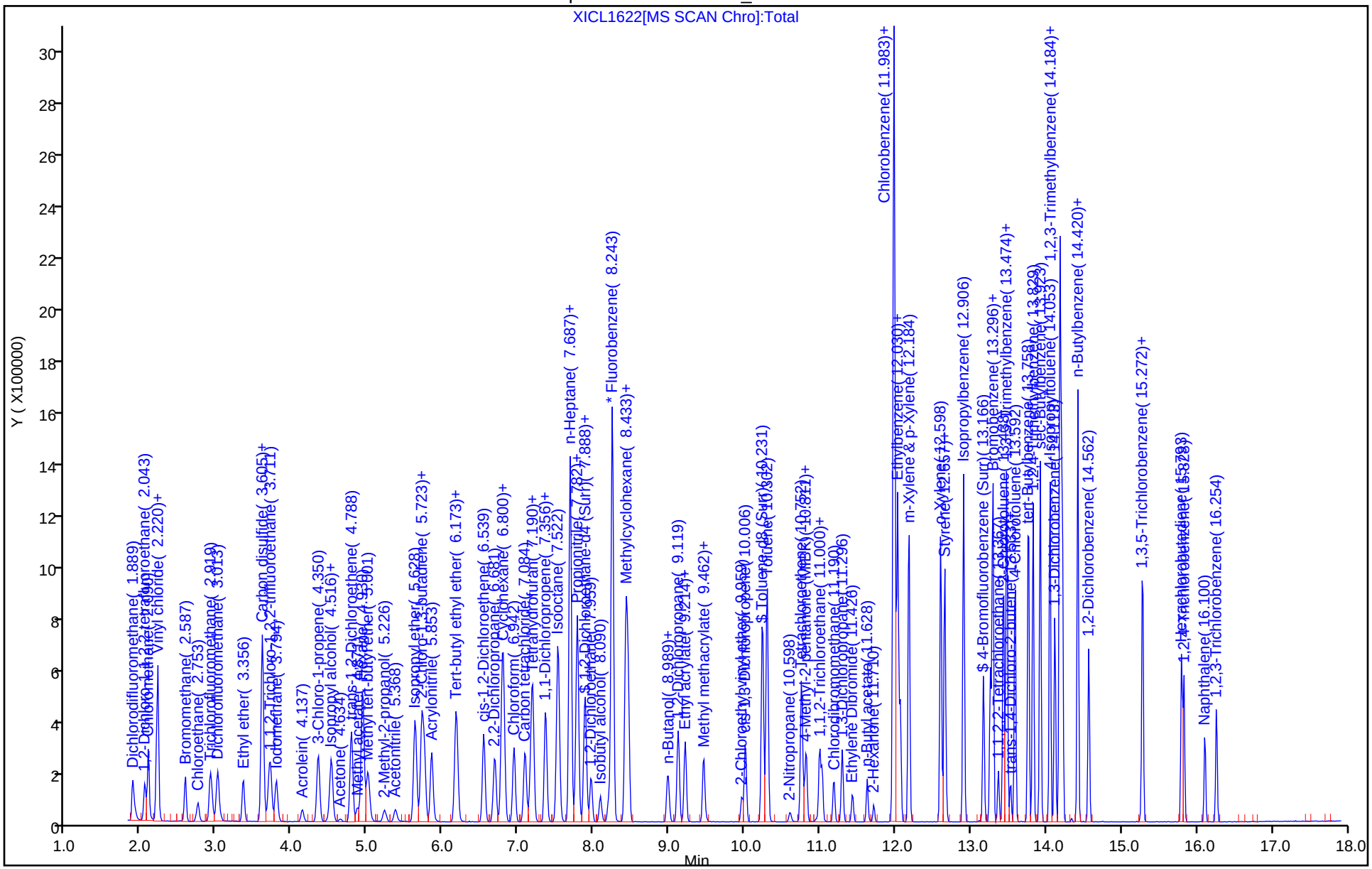
8260 NewWkMix_00269	Amount Added: 4.00	Units: uL	
8260 Surr 25_00085	Amount Added: 4.00	Units: uL	
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:30:41 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1622.D

Injection Date:	03-Apr-2018 23:32:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	IC			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		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

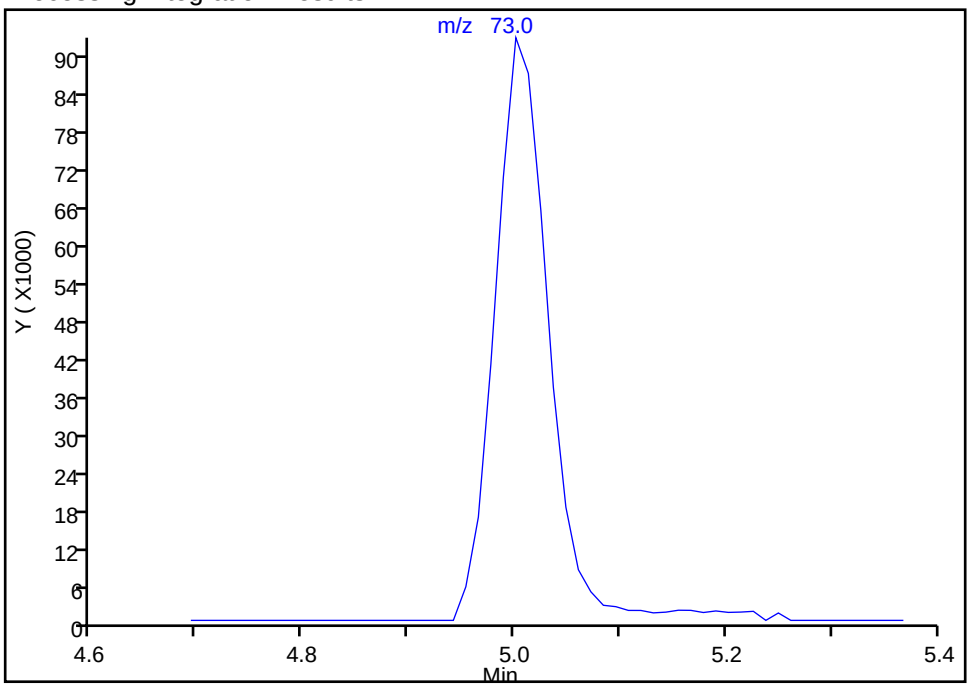
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Injection Date: 03-Apr-2018 23:32:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

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

Signal: 1

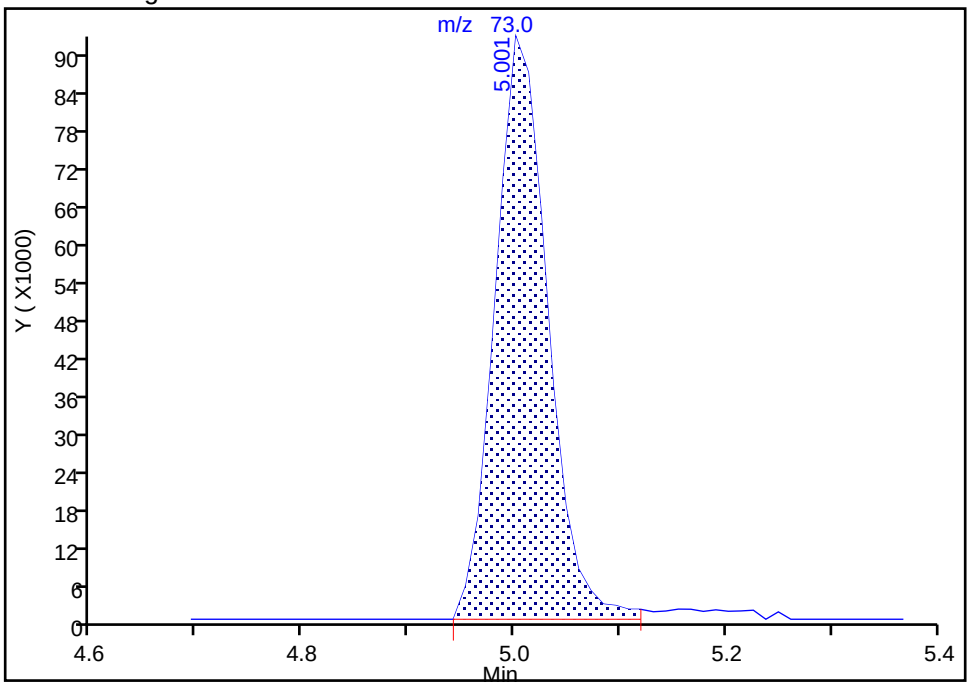
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.00
Area: 320247
Amount: 19.452771
Amount Units: ug/l



Reviewer: hannj, 04-Apr-2018 14:38:45
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica St. Louis

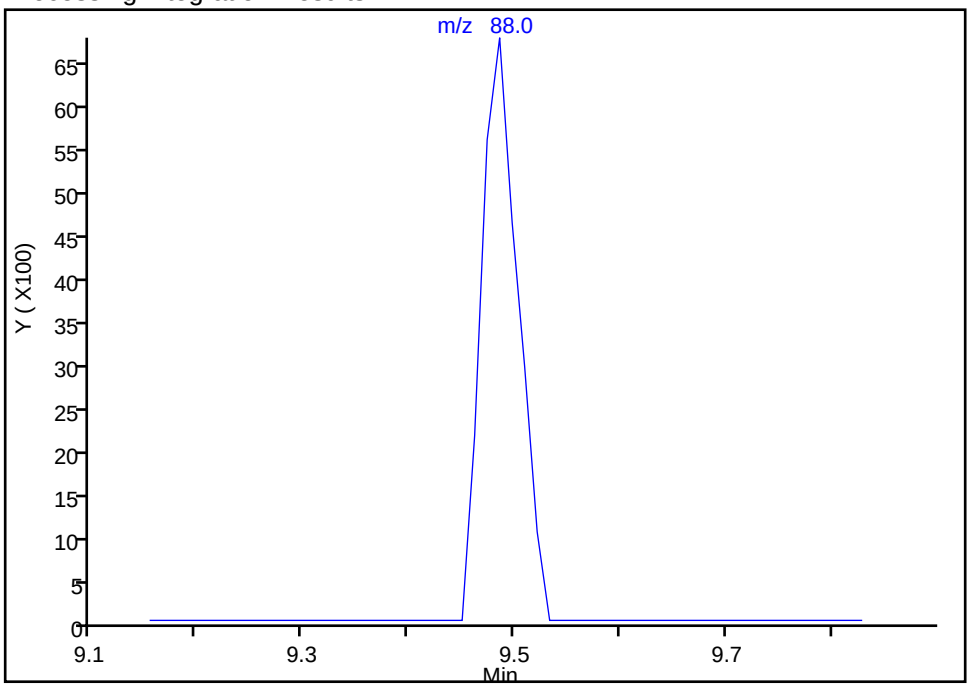
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Injection Date: 03-Apr-2018 23:32:30 Instrument ID: VMSX
Lims ID: IC
Client ID:
Operator ID: JDH ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

59 1,4-Dioxane, CAS: 123-91-1

Signal: 1

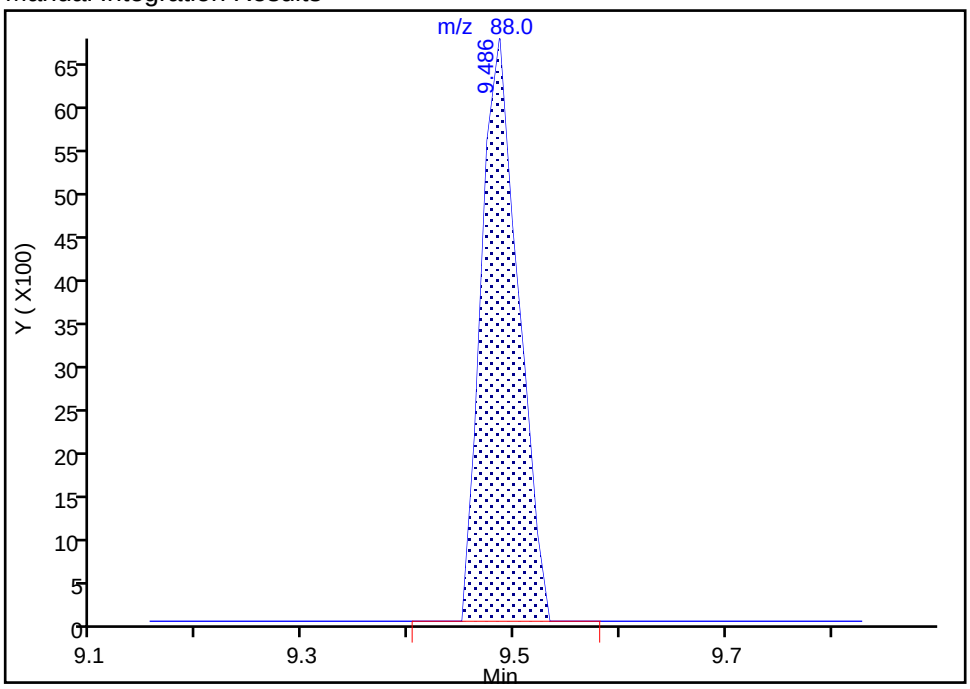
Not Detected
Expected RT: 9.49

Processing Integration Results



Manual Integration Results

RT: 9.49
Area: 16326
Amount: 388.2002
Amount Units: ug/l



Reviewer: hannj, 04-Apr-2018 14:38:59
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1623.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 03-Apr-2018 23:58:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012973-008
Misc. Info.: ICIS
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:30:44 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 05-Apr-2018 16:28:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.877	1.877	0.000	99	651838	50.0	51.8	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	276108	50.0	53.3	
3 Chloromethane	50	2.090	2.090	0.000	98	686736	50.0	48.9	
4 Vinyl chloride	62	2.197	2.197	0.000	98	708871	50.0	47.5	
121 Butadiene	39	2.209	2.209	0.000	80	359562	50.0	49.2	
5 Bromomethane	94	2.576	2.576	0.000	90	309312	50.0	48.3	
6 Chloroethane	64	2.741	2.741	0.000	98	236750	50.0	47.2	
7 Trichlorofluoromethane	101	2.907	2.907	0.000	98	677002	50.0	48.7	
122 Dichlorofluoromethane	67	3.001	3.001	0.000	96	692748	50.0	47.5	
8 Ethyl ether	74	3.345	3.345	0.000	88	242253	50.0	50.9	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	95	507169	50.0	49.1	
10 Carbon disulfide	76	3.605	3.605	0.000	98	1762631	50.0	50.2	
11 Ethanol	45	3.605	3.605	0.000	24	82234	2000.0	1899.6	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	95	363129	50.0	49.0	
13 Iodomethane	142	3.782	3.782	0.000	99	670140	50.0	49.2	
14 Acrolein	56	4.126	4.126	0.000	99	173228	250.0	246.8	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	94	436332	50.0	49.4	
16 Isopropyl alcohol	45	4.492	4.492	0.000	98	115638	500.0	501.8	
17 Methylene Chloride	84	4.516	4.516	0.000	93	467782	50.0	49.2	
18 Acetone	43	4.634	4.634	0.000	97	52727	50.0	52.0	
19 trans-1,2-Dichloroethene	96	4.776	4.776	0.000	96	540075	50.0	48.2	
20 Methyl acetate	74	4.859	4.859	0.000	96	71807	250.0	259.4	
21 Hexane	86	4.930	4.930	0.000	81	190555	50.0	50.8	
22 Methyl tert-butyl ether	73	5.001	5.001	0.000	89	859235	50.0	50.4	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	99	217521	500.0	521.4	
24 Acetonitrile	41	5.368	5.368	0.000	99	217533	500.0	500.2	
25 Isopropyl ether	45	5.628	5.628	0.000	94	1357060	50.0	50.2	
27 2-Chloro-1,3-butadiene	53	5.711	5.711	0.000	91	900552	50.0	49.9	
28 1,1-Dichloroethane	63	5.747	5.747	0.000	96	989452	50.0	49.0	
29 Acrylonitrile	53	5.853	5.853	0.000	100	838361	500.0	496.9	

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	6.173	6.173	0.000	98	1352615	50.0	50.5	
31 Vinyl acetate	43	6.185	6.185	0.000	97	612412	50.0	52.2	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	81	543869	50.0	48.3	
33 2,2-Dichloropropane	77	6.682	6.682	0.000	87	633196	50.0	50.1	
34 Cyclohexane	84	6.788	6.788	0.000	86	958233	50.0	49.4	
35 Chlorobromomethane	128	6.812	6.812	0.000	97	172834	50.0	49.7	
36 Chloroform	83	6.942	6.942	0.000	93	833602	50.0	48.0	
37 Carbon tetrachloride	117	7.084	7.084	0.000	97	642386	50.0	49.0	
38 Tetrahydrofuran	71	7.155	7.155	0.000	90	52056	100.0	103.1	
39 Ethyl acetate	45	7.155	7.155	0.000	99	57855	100.0	108.2	
$ 41 Dibromofluoromethane (Surr	113	7.179	7.179	0.000	92	375055	50.0	50.4	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	98	806072	50.0	49.9	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	99	778107	50.0	49.2	
43 2-Butanone (MEK)	43	7.380	7.380	0.000	99	85027	50.0	51.6	
124 Isooctane	57	7.522	7.522	0.000	93	2654992	50.0	49.1	
44 Benzene	78	7.687	7.687	0.000	96	2140386	50.0	47.4	
117 n-Heptane	43	7.687	7.687	0.000	69	903517	50.0	49.7	
45 Propionitrile	54	7.758	7.758	0.000	96	319976	500.0	504.1	
46 Methacrylonitrile	41	7.782	7.782	0.000	84	1160511	500.0	498.4	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	383530	50.0	50.5	
48 Tert-amyl methyl ether	73	7.888	7.888	0.000	98	989138	50.0	50.0	
49 1,2-Dichloroethane	62	7.959	7.959	0.000	98	487584	50.0	48.6	
50 Isobutyl alcohol	42	8.090	8.090	0.000	96	126588	1250.0	1185.3	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1931588	50.0	50.0	
52 Methylcyclohexane	55	8.421	8.421	0.000	88	954342	50.0	49.5	
53 Trichloroethene	95	8.456	8.456	0.000	97	539628	50.0	47.8	
54 n-Butanol	56	8.977	8.977	0.000	83	167612	1250.0	1273.6	
55 Dibromomethane	93	8.989	8.989	0.000	97	190807	50.0	50.2	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	96	507480	50.0	49.9	
123 Ethyl acrylate	55	9.202	9.202	0.000	98	349177	50.0	53.3	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	563744	50.0	50.4	
58 Methyl methacrylate	69	9.450	9.450	0.000	88	377048	100.0	104.0	
59 1,4-Dioxane	88	9.486	9.486	0.000	94	44577	1000.0	1024.4	
60 2-Chloroethyl vinyl ether	63	9.959	9.959	0.000	89	179222	50.0	53.5	
61 cis-1,3-Dichloropropene	75	10.007	10.007	0.000	98	665447	50.0	51.3	
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1836421	50.0	50.1	
63 Toluene	92	10.302	10.302	0.000	99	1349834	50.0	49.1	
64 2-Nitropropane	43	10.598	10.598	0.000	97	90788	100.0	98.5	
65 Tetrachloroethene	164	10.752	10.752	0.000	96	413313	50.0	48.9	
66 4-Methyl-2-pentanone (MIBK	43	10.788	10.788	0.000	91	185236	50.0	52.7	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	90	523787	50.0	51.4	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	90	242285	50.0	49.2	
69 Ethyl methacrylate	69	11.024	11.024	0.000	87	370854	50.0	52.7	
70 Chlorodibromomethane	129	11.190	11.190	0.000	89	300632	50.0	51.4	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	87	533707	50.0	48.9	
72 Ethylene Dibromide	107	11.427	11.427	0.000	99	245335	50.0	50.3	
118 n-Butyl acetate	43	11.628	11.628	0.000	93	328511	50.0	52.0	
74 2-Hexanone	43	11.711	11.711	0.000	90	127099	50.0	51.3	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	89	1151232	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	0.000	90	959883	50.0	49.6	
77 Chlorobenzene	112	11.995	11.995	0.000	97	1271345	50.0	48.9	
78 Ethylbenzene	91	12.030	12.030	0.000	98	2525073	50.0	47.2	

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	12.066	12.066	0.000	94	369349	50.0	49.0	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	99	943459	50.0	48.4	
82 o-Xylene	106	12.598	12.598	0.000	97	867704	50.0	48.5	
83 Styrene	104	12.657	12.657	0.000	94	1344648	50.0	50.3	
84 Bromoform	173	12.669	12.669	0.000	96	141378	50.0	51.2	
85 Isopropylbenzene	105	12.906	12.906	0.000	96	2360863	50.0	50.6	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	84	592807	50.0	51.4	
87 Bromobenzene	156	13.261	13.261	0.000	95	431383	50.0	49.4	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	2822630	50.0	50.3	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	94	282172	50.0	48.1	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	1587136	50.0	49.3	
91 1,3,5-Trimethylbenzene	105	13.474	13.474	0.000	93	1825174	50.0	49.9	
92 1,2,3-Trichloropropane	110	13.485	13.485	0.000	80	81727	50.0	49.2	
93 trans-1,4-Dichloro-2-buten	53	13.521	13.521	0.000	88	78842	50.0	48.6	
94 Cyclohexanone	55	13.533	13.533	0.000	68	64420	500.0	509.4	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	1580076	50.0	49.2	
96 tert-Butylbenzene	119	13.769	13.769	0.000	92	1570720	50.0	49.8	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	97	1801191	50.0	49.9	
98 sec-Butylbenzene	105	13.923	13.923	0.000	94	2490809	50.0	49.8	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	96	1969418	50.0	50.1	
100 1,3-Dichlorobenzene	146	14.113	14.113	0.000	97	852936	50.0	48.7	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	96	502137	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	93	819971	50.0	48.0	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	98	1646988	50.0	48.8	
120 Benzyl chloride	126	14.420	14.420	0.000	89	90390	50.0	53.1	
103 n-Butylbenzene	134	14.420	14.420	0.000	96	508205	50.0	50.0	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	96	702386	50.0	48.3	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	82	33637	50.0	48.9	
106 n-Nonyl Aldehyde	57	15.272	15.272	0.000	60	175572	50.0	48.1	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	575297	50.0	47.1	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	97	315050	50.0	47.5	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	94	441183	50.0	52.4	
110 Naphthalene	128	16.101	16.101	0.000	97	704794	50.0	52.8	
111 1,2,3-Trichlorobenzene	180	16.254	16.254	0.000	94	351706	50.0	53.7	

Reagents:

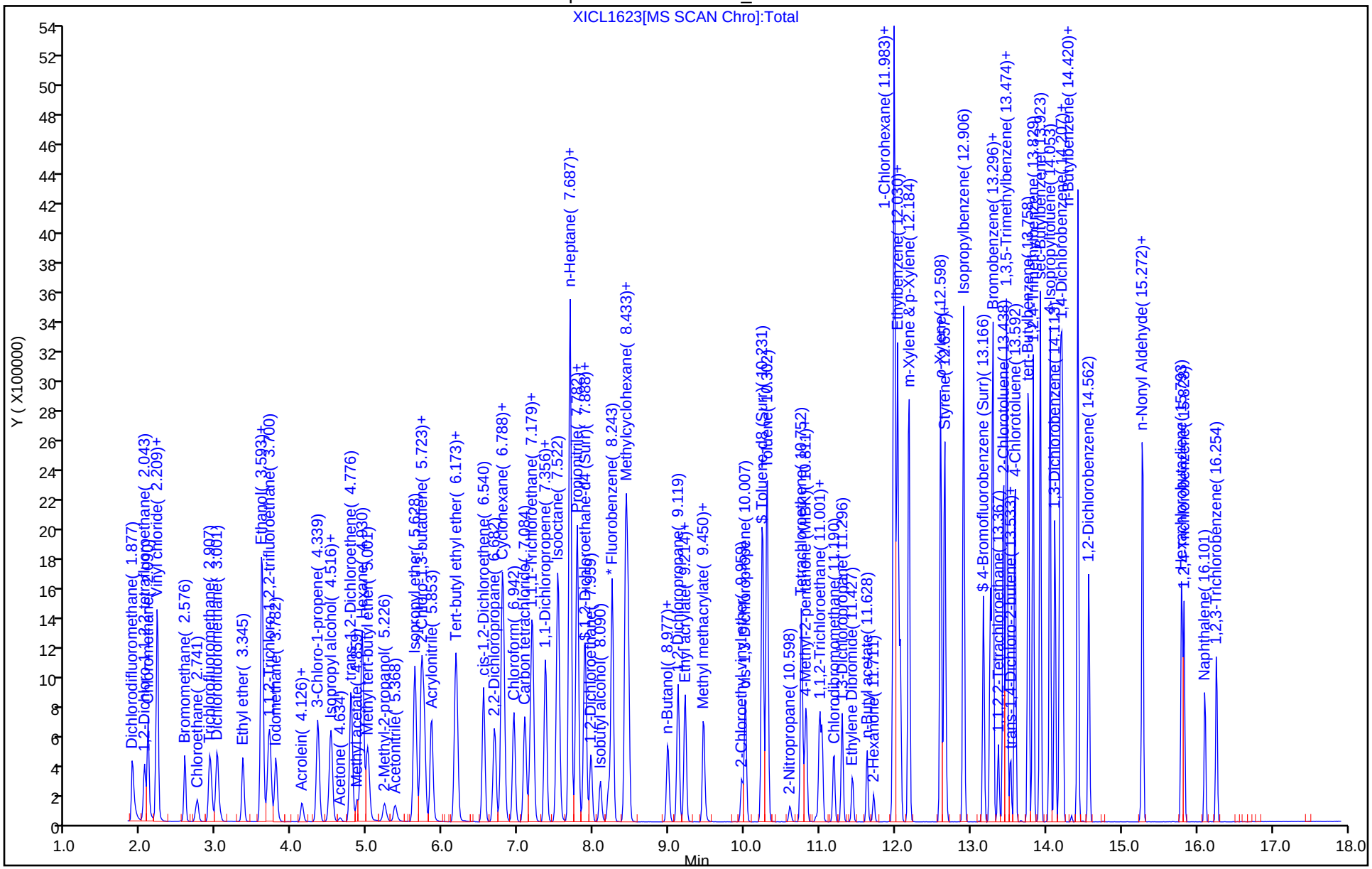
8260 NewWkMix_00269	Amount Added: 10.00	Units: uL	
8260 Surr 25_00085	Amount Added: 10.00	Units: uL	
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:30:46 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1623.D

Injection Date:	03-Apr-2018 23:58:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	ICIS			Worklist Smp#:	8
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\20180403-12973.b\XICL1624.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 04-Apr-2018 00:23:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012973-009
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:30:49 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 14:39:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.877	0.012	99	1130372	100.0	87.8	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	525454	100.0	99.2	
3 Chloromethane	50	2.090	2.090	0.000	98	1386059	100.0	96.5	
4 Vinyl chloride	62	2.197	2.197	0.000	97	1399461	100.0	91.7	
121 Butadiene	39	2.221	2.209	0.012	79	691769	100.0	92.6	
5 Bromomethane	94	2.576	2.576	0.000	90	628094	100.0	95.9	
6 Chloroethane	64	2.741	2.741	0.000	98	455632	100.0	90.5	
7 Trichlorofluoromethane	101	2.919	2.907	0.012	98	1374657	100.0	96.8	
122 Dichlorofluoromethane	67	3.013	3.001	0.012	96	1399629	100.0	93.9	
8 Ethyl ether	74	3.345	3.345	0.000	88	495189	100.0	101.8	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	95	1070959	100.0	101.5	
11 Ethanol	45	3.605	3.605	0.000	24	187866	4000.0	4243.8	
10 Carbon disulfide	76	3.605	3.605	0.000	98	3698516	100.0	103.0	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	95	760164	100.0	100.2	
13 Iodomethane	142	3.783	3.782	0.001	99	1428347	100.0	102.6	
14 Acrolein	56	4.138	4.126	0.012	99	354240	500.0	493.5	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	93	907038	100.0	100.3	
16 Isopropyl alcohol	45	4.492	4.492	0.000	99	244136	1000.0	1004.8	
17 Methylene Chloride	84	4.516	4.516	0.000	92	979566	100.0	100.7	
18 Acetone	43	4.634	4.634	0.000	96	104937	100.0	101.3	
19 trans-1,2-Dichloroethene	96	4.788	4.776	0.012	97	1156888	100.0	101.0	
20 Methyl acetate	74	4.859	4.859	0.000	97	149504	500.0	528.1	
21 Hexane	86	4.930	4.930	0.000	80	399689	100.0	104.2	
22 Methyl tert-butyl ether	73	5.001	5.001	0.000	89	1741074	100.0	100.0	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	99	438835	1000.0	989.8	
24 Acetonitrile	41	5.368	5.368	0.000	99	450979	1000.0	1014.1	
25 Isopropyl ether	45	5.628	5.628	0.000	95	2850360	100.0	103.1	
27 2-Chloro-1,3-butadiene	53	5.711	5.711	0.000	90	1914820	100.0	103.7	
28 1,1-Dichloroethane	63	5.747	5.747	0.000	97	2071543	100.0	100.3	
S 26 1,2-Dichloroethene, Total	96				0			201.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.853	5.853	0.000	100	1717319	1000.0	995.4	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	98	2862944	100.0	104.5	
31 Vinyl acetate	43	6.185	6.185	0.000	97	1174902	100.0	97.9	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	81	1158854	100.0	100.7	
33 2,2-Dichloropropane	77	6.682	6.682	0.000	86	1271587	100.0	98.4	
34 Cyclohexane	84	6.788	6.788	0.000	85	2019059	100.0	101.8	
35 Chlorobromomethane	128	6.812	6.812	0.000	97	360066	100.0	101.3	
36 Chloroform	83	6.942	6.942	0.000	93	1749711	100.0	98.5	
37 Carbon tetrachloride	117	7.084	7.084	0.000	97	1387632	100.0	103.6	
39 Ethyl acetate	45	7.155	7.155	0.000	99	118457	200.0	216.6	
38 Tetrahydrofuran	71	7.143	7.155	-0.012	89	107940	200.0	209.1	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.012	93	750141	100.0	98.6	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	98	1661954	100.0	100.6	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	99	1648895	100.0	102.0	
43 2-Butanone (MEK)	43	7.380	7.380	0.000	98	165732	100.0	98.4	
124 Isooctane	57	7.522	7.522	0.000	93	5540342	100.0	100.2	
117 n-Heptane	43	7.687	7.687	0.000	68	1781839	100.0	95.8	
44 Benzene	78	7.687	7.687	0.000	96	4450503	100.0	96.5	
45 Propionitrile	54	7.758	7.758	0.000	95	652422	1000.0	1005.2	
46 Methacrylonitrile	41	7.782	7.782	0.000	83	2247501	1000.0	944.0	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	736636	100.0	94.8	
48 Tert-amyl methyl ether	73	7.889	7.888	0.001	98	2075501	100.0	102.6	
49 1,2-Dichloroethane	62	7.960	7.959	0.001	98	987407	100.0	96.2	
50 Isobutyl alcohol	42	8.090	8.090	0.000	96	254438	2500.0	2329.9	
* 51 Fluorobenzene	96	8.244	8.243	0.001	99	1975204	50.0	50.0	
52 Methylcyclohexane	55	8.421	8.421	0.000	88	1964327	100.0	99.7	
53 Trichloroethene	95	8.457	8.456	0.001	97	1130340	100.0	98.0	
54 n-Butanol	56	8.977	8.977	0.000	79	359876	2500.0	2507.1	
55 Dibromomethane	93	8.989	8.989	0.000	96	395373	100.0	101.7	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	96	1071738	100.0	103.1	
123 Ethyl acrylate	55	9.202	9.202	0.000	98	723515	100.0	107.9	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	1183543	100.0	103.5	
58 Methyl methacrylate	69	9.450	9.450	0.000	87	786504	200.0	212.1	
59 1,4-Dioxane	88	9.486	9.486	0.000	95	94019	2000.0	2112.9	
60 2-Chloroethyl vinyl ether	63	9.959	9.959	0.000	88	382250	100.0	111.5	
61 cis-1,3-Dichloropropene	75	10.007	10.007	0.000	98	1422601	100.0	107.3	
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	3633715	100.0	98.6	
63 Toluene	92	10.302	10.302	0.000	99	2810515	100.0	101.7	
64 2-Nitropropane	43	10.598	10.598	0.000	95	204264	200.0	201.4	
65 Tetrachloroethene	164	10.752	10.752	0.000	97	862452	100.0	101.6	
66 4-Methyl-2-pentanone (MIBK	43	10.788	10.788	0.000	90	365559	100.0	103.4	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	89	1097015	100.0	107.1	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	91	501492	100.0	101.2	
69 Ethyl methacrylate	69	11.024	11.024	0.000	85	768978	100.0	108.7	
70 Chlorodibromomethane	129	11.190	11.190	0.000	90	625977	100.0	106.5	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	86	1091701	100.0	99.5	
72 Ethylene Dibromide	107	11.427	11.427	0.000	99	505315	100.0	103.0	
S 73 1,3-Dichloropropene, Total	75				0			214.5	
118 n-Butyl acetate	43	11.628	11.628	0.000	93	686837	100.0	108.1	
74 2-Hexanone	43	11.711	11.711	0.000	88	255131	100.0	102.5	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	87	1157514	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	0.000	91	2006184	100.0	103.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	11.995	11.995	0.001	96	2598189	100.0	99.5	
78 Ethylbenzene	91	12.030	12.030	0.000	95	5116757	100.0	95.1	
79 1,1,1,2-Tetrachloroethane	131	12.066	12.066	0.000	94	768848	100.0	101.5	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	98	1979866	100.0	101.0	
82 o-Xylene	106	12.598	12.598	0.000	97	1779690	100.0	98.8	
83 Styrene	104	12.657	12.657	0.000	94	2808227	100.0	104.5	
84 Bromoform	173	12.669	12.669	0.000	97	297479	100.0	108.0	
85 Isopropylbenzene	105	12.906	12.906	0.000	96	4795140	100.0	103.0	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	85	1163664	100.0	101.1	
87 Bromobenzene	156	13.261	13.261	0.000	95	892251	100.0	102.4	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	5643164	100.0	100.7	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	94	556105	100.0	94.9	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	3218184	100.0	100.2	
91 1,3,5-Trimethylbenzene	105	13.474	13.474	0.000	94	3623057	100.0	99.3	
92 1,2,3-Trichloropropane	110	13.486	13.485	0.001	79	155262	100.0	93.6	
93 trans-1,4-Dichloro-2-buten	53	13.521	13.521	0.000	94	158151	100.0	97.6	
94 Cyclohexanone	55	13.521	13.533	-0.012	70	130732	1000.0	999.5	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	3242485	100.0	101.2	
96 tert-Butylbenzene	119	13.770	13.769	0.001	92	3132105	100.0	99.4	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	97	3589700	100.0	99.5	
98 sec-Butylbenzene	105	13.923	13.923	0.000	94	4987280	100.0	99.9	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	96	3950253	100.0	100.7	
100 1,3-Dichlorobenzene	146	14.113	14.113	0.000	97	1738986	100.0	99.3	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	95	501354	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	94	1670156	100.0	97.8	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	98	3282827	100.0	97.4	
103 n-Butylbenzene	134	14.420	14.420	0.000	97	1042944	100.0	102.7	
120 Benzyl chloride	126	14.420	14.420	0.000	89	194771	100.0	114.6	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	97	1406188	100.0	96.8	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	85	68879	100.0	100.3	
106 n-Nonyl Aldehyde	57	15.272	15.272	0.000	61	380711	100.0	103.2	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	1186718	100.0	97.3	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	97	616178	100.0	93.0	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	94	852827	100.0	103.3	
110 Naphthalene	128	16.101	16.101	0.000	98	1333650	100.0	101.6	
111 1,2,3-Trichlorobenzene	180	16.254	16.254	0.000	95	669537	100.0	104.8	
S 112 Xylenes, Total	106				0			199.8	
S 113 Trihalomethanes, Total	1				0			416.5	

Reagents:

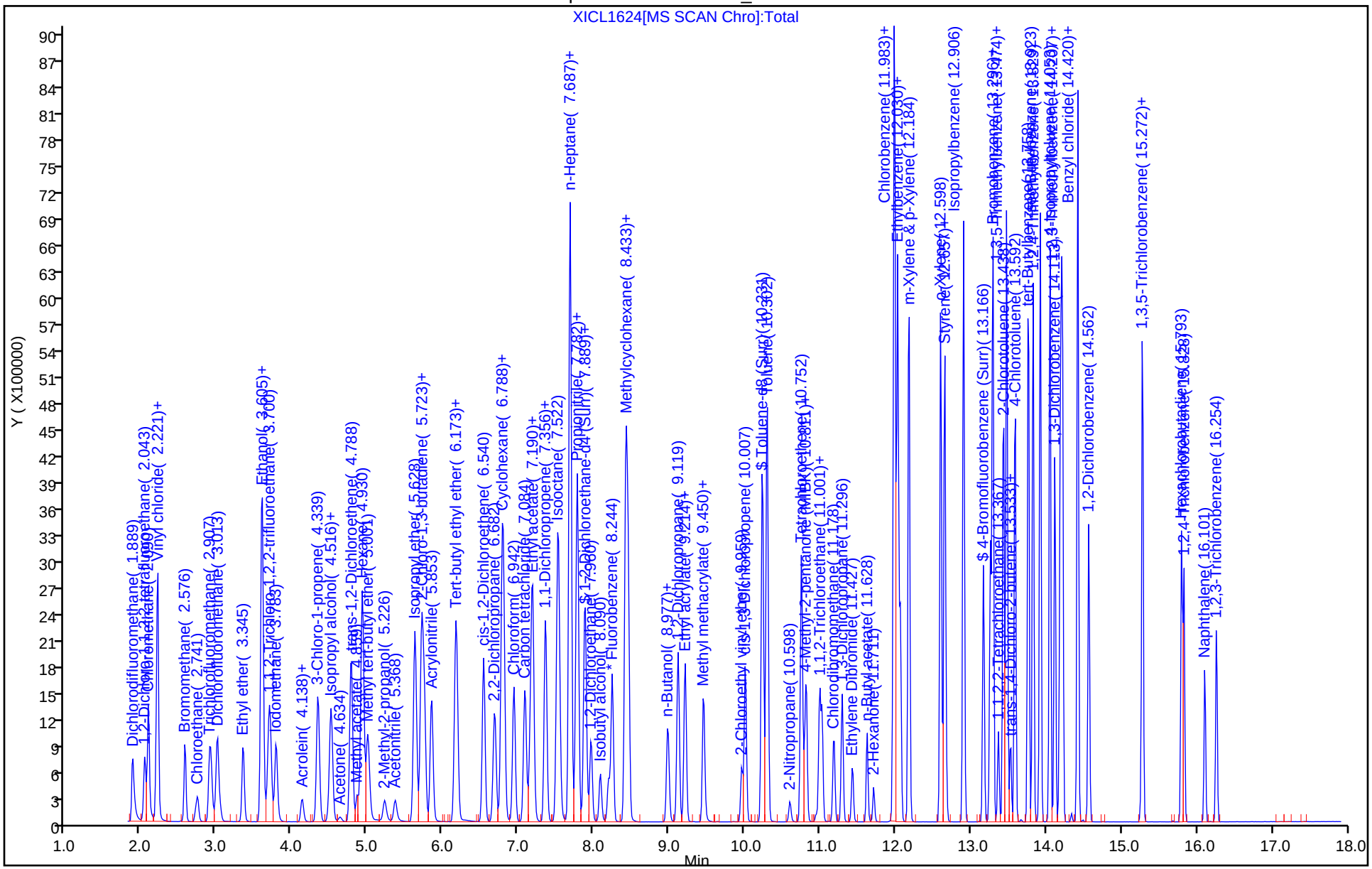
8260 Surr 25_00085	Amount Added: 20.00	Units: uL	
8260NewHiWrk_00244	Amount Added: 4.00	Units: uL	
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:30:50 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1624.D

Injection Date:	04-Apr-2018 00:23:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	IC			Worklist Smp#:	9
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\20180403-12973.b\XICL1625.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 04-Apr-2018 00:48:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012973-010
Misc. Info.: IC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:30:53 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 14:40:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.877	0.012	99	2170179	200.0	169.0	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	980526	200.0	185.7	
3 Chloromethane	50	2.102	2.090	0.012	98	2627144	200.0	183.4	
4 Vinyl chloride	62	2.209	2.197	0.012	98	2547881	200.0	167.4	
121 Butadiene	39	2.221	2.209	0.012	79	1231056	200.0	165.3	
5 Bromomethane	94	2.587	2.576	0.011	90	1219949	200.0	186.7	
6 Chloroethane	64	2.753	2.741	0.012	98	1046950	200.0	211.1	
7 Trichlorofluoromethane	101	2.919	2.907	0.012	98	2644088	200.0	186.7	
122 Dichlorofluoromethane	67	3.013	3.001	0.012	96	2690179	200.0	181.0	
8 Ethyl ether	74	3.356	3.345	0.011	87	976479	200.0	201.2	
9 1,1-Dichloroethene	96	3.605	3.593	0.012	96	2050561	200.0	194.9	
10 Carbon disulfide	76	3.605	3.605	0.000	98	6923209	200.0	193.3	
11 Ethanol	45	3.605	3.605	0.000	27	379137	8000.0	8587.7	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	94	1453141	200.0	192.1	
13 Iodomethane	142	3.794	3.782	0.012	99	2740065	200.0	197.3	
14 Acrolein	56	4.137	4.126	0.011	99	732066	1000.0	1022.6	
15 3-Chloro-1-propene	39	4.350	4.339	0.011	93	1655760	200.0	183.7	
16 Isopropyl alcohol	45	4.481	4.492	-0.011	99	523767	2000.0	1999.0	
17 Methylene Chloride	84	4.516	4.516	0.000	91	1895672	200.0	195.4	
18 Acetone	43	4.634	4.634	0.000	95	210188	200.0	203.4	
19 trans-1,2-Dichloroethene	96	4.788	4.776	0.012	98	2212387	200.0	193.7	
20 Methyl acetate	74	4.859	4.859	0.000	97	305742	1000.0	1082.9	
21 Hexane	86	4.930	4.930	0.000	82	767892	200.0	200.7	
22 Methyl tert-butyl ether	73	5.001	5.001	0.000	94	3495726	200.0	201.2	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	100	971678	2000.0	2001.2	
24 Acetonitrile	41	5.368	5.368	0.000	99	909331	2000.0	2050.3	
25 Isopropyl ether	45	5.628	5.628	0.000	94	5407709	200.0	196.2	
27 2-Chloro-1,3-butadiene	53	5.723	5.711	0.012	89	3555671	200.0	193.2	
28 1,1-Dichloroethane	63	5.759	5.747	0.012	97	3920115	200.0	190.3	
S 26 1,2-Dichloroethene, Total	96				0			387.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.853	5.853	0.000	100	3399920	2000.0	1976.1	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	97	5592367	200.0	204.7	
31 Vinyl acetate	43	6.185	6.185	0.000	97	2319018	200.0	193.7	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	80	2227336	200.0	194.0	
33 2,2-Dichloropropane	77	6.693	6.682	0.011	86	2361373	200.0	183.2	
34 Cyclohexane	84	6.788	6.788	0.000	84	3855439	200.0	194.9	
35 Chlorobromomethane	128	6.812	6.812	0.000	97	702292	200.0	198.2	
36 Chloroform	83	6.942	6.942	0.000	93	3338993	200.0	188.5	
37 Carbon tetrachloride	117	7.096	7.084	0.012	97	2666926	200.0	199.6	
38 Tetrahydrofuran	71	7.143	7.155	-0.012	88	226298	400.0	439.6	
39 Ethyl acetate	45	7.155	7.155	0.000	98	239763	400.0	439.7	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.012	93	1566625	200.0	206.5	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	98	3125295	200.0	189.7	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	98	3108974	200.0	192.8	
43 2-Butanone (MEK)	43	7.380	7.380	0.000	98	324250	200.0	193.0	
124 Isooctane	57	7.534	7.522	0.012	93	10213706	200.0	185.2	
44 Benzene	78	7.687	7.687	0.000	95	8210083	200.0	178.4	
117 n-Heptane	43	7.687	7.687	0.000	67	3108432	200.0	167.6	
45 Propionitrile	54	7.758	7.758	0.000	95	1292781	2000.0	1997.2	
46 Methacrylonitrile	41	7.782	7.782	0.000	79	4175286	2000.0	1758.5	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	1511589	200.0	195.1	
48 Tert-amyl methyl ether	73	7.888	7.888	0.000	98	4205888	200.0	208.5	
49 1,2-Dichloroethane	62	7.971	7.959	0.012	97	1896316	200.0	185.3	
50 Isobutyl alcohol	42	8.090	8.090	0.000	97	556708	5000.0	5111.6	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1969866	50.0	50.0	
52 Methylcyclohexane	55	8.433	8.421	0.012	85	3603583	200.0	183.4	
53 Trichloroethene	95	8.456	8.456	0.000	98	2132435	200.0	185.4	
54 n-Butanol	56	8.977	8.977	0.000	78	820982	5000.0	4998.1	
55 Dibromomethane	93	8.989	8.989	0.000	98	782552	200.0	201.8	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	95	2065566	200.0	199.2	
123 Ethyl acrylate	55	9.202	9.202	0.000	98	1486056	200.0	222.3	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	2301742	200.0	201.8	
58 Methyl methacrylate	69	9.462	9.450	0.012	86	1621993	400.0	438.5	
59 1,4-Dioxane	88	9.486	9.486	0.000	95	196091	4000.0	4418.8	
60 2-Chloroethyl vinyl ether	63	9.959	9.959	0.000	88	783628	200.0	229.2	
61 cis-1,3-Dichloropropene	75	10.007	10.007	0.000	99	2762580	200.0	209.0	
$ 62 Toluene-d8 (Surr)	98	10.243	10.231	0.012	92	7283345	200.0	201.4	
63 Toluene	92	10.302	10.302	0.000	98	5333651	200.0	196.7	
64 2-Nitropropane	43	10.598	10.598	0.000	93	450527	400.0	399.8	
65 Tetrachloroethene	164	10.752	10.752	0.000	97	1639564	200.0	196.7	
66 4-Methyl-2-pentanone (MIBK	43	10.788	10.788	0.000	89	736976	200.0	212.3	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	88	2156602	200.0	214.5	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	90	979829	200.0	201.5	
69 Ethyl methacrylate	69	11.024	11.024	0.000	84	1593387	200.0	229.4	
70 Chlorodibromomethane	129	11.190	11.190	0.000	90	1261941	200.0	218.8	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	85	2122625	200.0	197.2	
72 Ethylene Dibromide	107	11.427	11.427	0.000	99	1006345	200.0	209.0	
S 73 1,3-Dichloropropene, Total	75				0			423.5	
118 n-Butyl acetate	43	11.628	11.628	0.000	93	1411544	200.0	226.2	
74 2-Hexanone	43	11.711	11.711	0.000	88	535896	200.0	219.3	
* 76 Chlorobenzene-d5	117	11.983	11.971	0.012	87	1136186	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	0.000	88	3533880	200.0	185.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	11.995	11.995	0.001	96	4813346	200.0	187.8	
78 Ethylbenzene	91	12.030	12.030	0.000	96	9210230	200.0	174.4	
79 1,1,1,2-Tetrachloroethane	131	12.066	12.066	0.000	95	1485826	200.0	199.9	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	97	3710516	200.0	192.8	
82 o-Xylene	106	12.598	12.598	0.000	96	3425550	200.0	193.8	
83 Styrene	104	12.657	12.657	0.000	94	5288626	200.0	200.5	
84 Bromoform	173	12.669	12.669	0.000	97	611505	200.0	216.2	
85 Isopropylbenzene	105	12.906	12.906	0.000	96	8453427	200.0	176.8	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	85	2369259	200.0	200.5	
87 Bromobenzene	156	13.261	13.261	0.000	94	1706830	200.0	190.8	
88 N-Propylbenzene	91	13.296	13.296	0.000	97	9686421	200.0	168.4	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	94	1123306	200.0	186.6	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	5947567	200.0	180.4	
91 1,3,5-Trimethylbenzene	105	13.474	13.474	0.000	95	6613000	200.0	176.5	
92 1,2,3-Trichloropropane	110	13.485	13.485	0.000	79	315424	200.0	185.2	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.521	0.012	94	322055	200.0	193.6	
94 Cyclohexanone	55	13.521	13.533	-0.012	73	292465	2000.0	1999.8	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	5947132	200.0	180.8	
96 tert-Butylbenzene	119	13.769	13.769	0.000	91	5856120	200.0	180.9	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	97	6604975	200.0	178.4	
98 sec-Butylbenzene	105	13.923	13.923	0.000	94	8809603	200.0	171.9	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	95	7185887	200.0	178.4	
100 1,3-Dichlorobenzene	146	14.113	14.113	0.000	97	3352909	200.0	186.6	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	92	514759	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	94	3223010	200.0	183.9	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	98	6111092	200.0	176.7	
120 Benzyl chloride	126	14.420	14.420	0.000	89	408917	200.0	234.3	
103 n-Butylbenzene	134	14.420	14.420	0.000	98	1977311	200.0	189.6	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	97	2763344	200.0	185.3	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	85	152363	200.0	216.2	
106 n-Nonyl Aldehyde	57	15.272	15.272	0.000	90	771067	200.0	199.4	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	2267914	200.0	181.1	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	97	1195492	200.0	175.8	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	94	1642963	200.0	195.7	
110 Naphthalene	128	16.101	16.101	0.000	97	2639158	200.0	197.5	
111 1,2,3-Trichlorobenzene	180	16.266	16.254	0.012	95	1251495	200.0	193.0	
S 112 Xylenes, Total	106				0			386.6	
S 113 Trihalomethanes, Total	1				0			825.2	

Reagents:

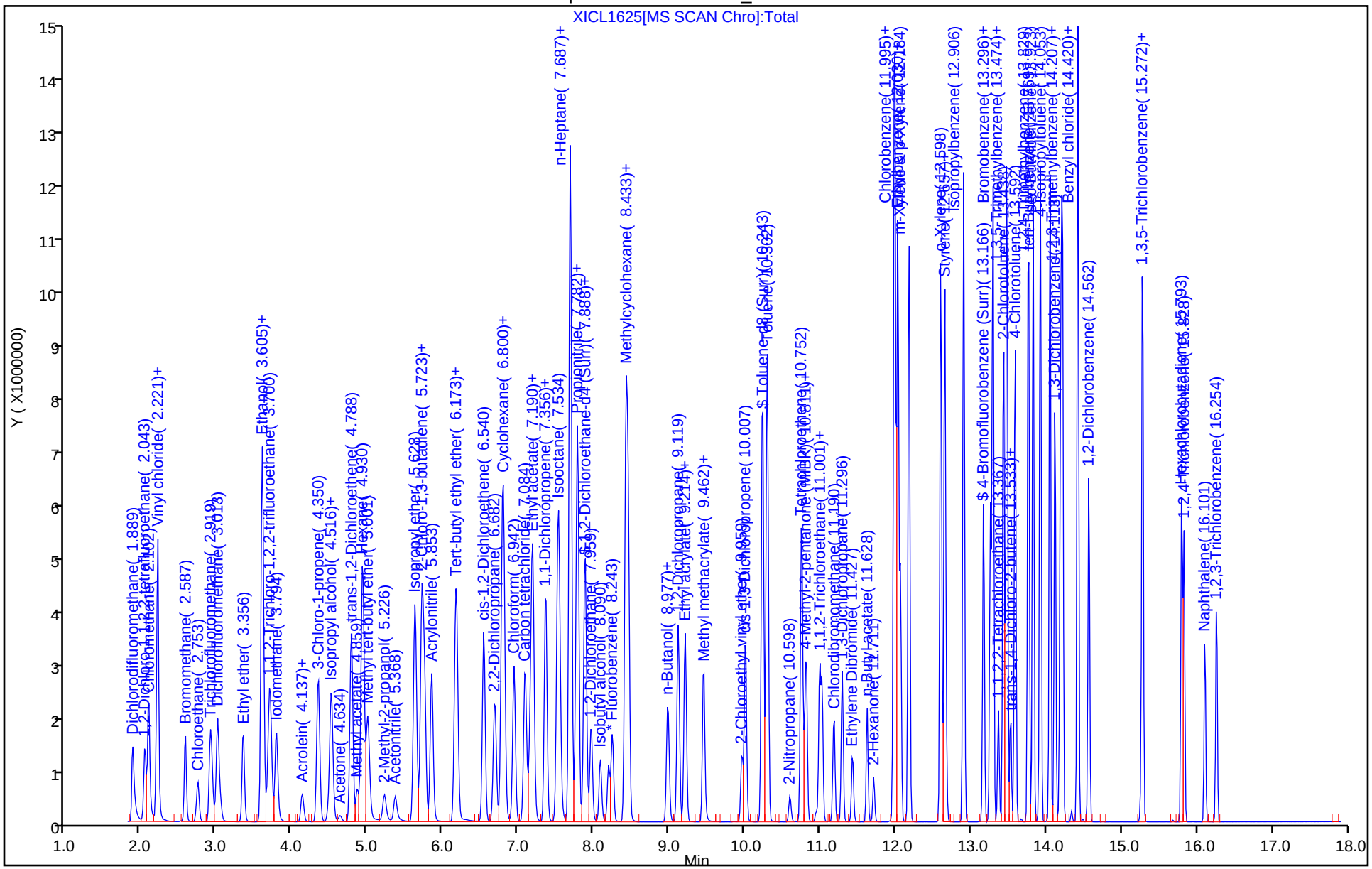
8260_Surr_00057	Amount Added: 0.40	Units: uL	
8260NewHiWrk_00244	Amount Added: 8.00	Units: uL	
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:30:55 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Injection Date:	04-Apr-2018 00:48:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	IC			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

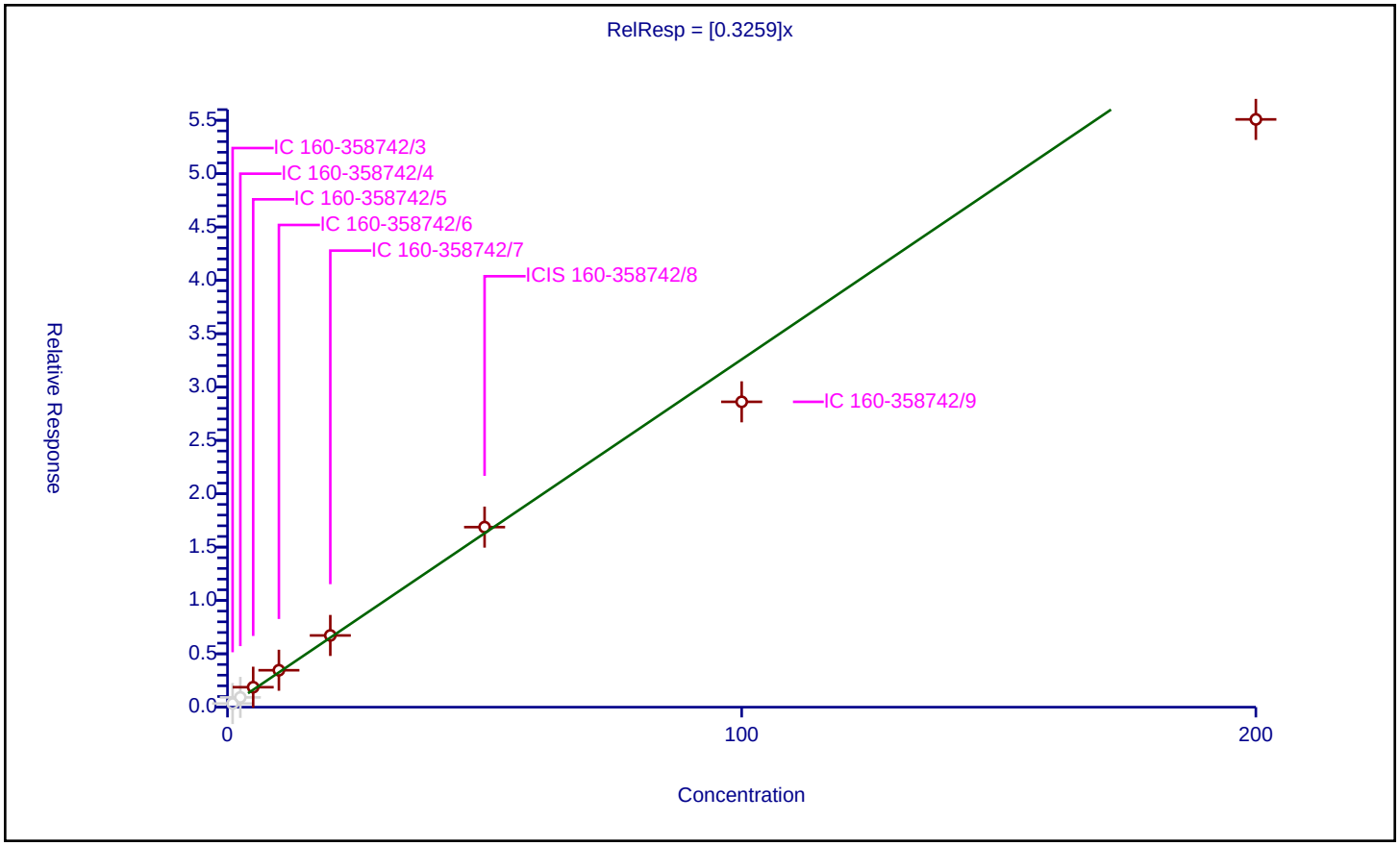
Curve Coefficients

Intercept:	0
Slope:	0.3259

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	11.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.342249	50.0	1816365.0	0.342249	N
2	IC 160-358742/4	2.5	0.91761	50.0	1806431.0	0.367044	N
3	IC 160-358742/5	5.0	1.871055	50.0	1826937.0	0.374211	Y
4	IC 160-358742/6	10.0	3.460516	50.0	1818587.0	0.346052	Y
5	IC 160-358742/7	20.0	6.721704	50.0	1866848.0	0.336085	Y
6	ICIS 160-358742/8	50.0	16.873112	50.0	1931588.0	0.337462	Y
7	IC 160-358742/9	100.0	28.614057	50.0	1975204.0	0.286141	Y
8	IC 160-358742/10	200.0	55.084432	50.0	1969866.0	0.275422	Y



Calibration / 1,2-Dichloro-1,1,2,2-tetrafluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

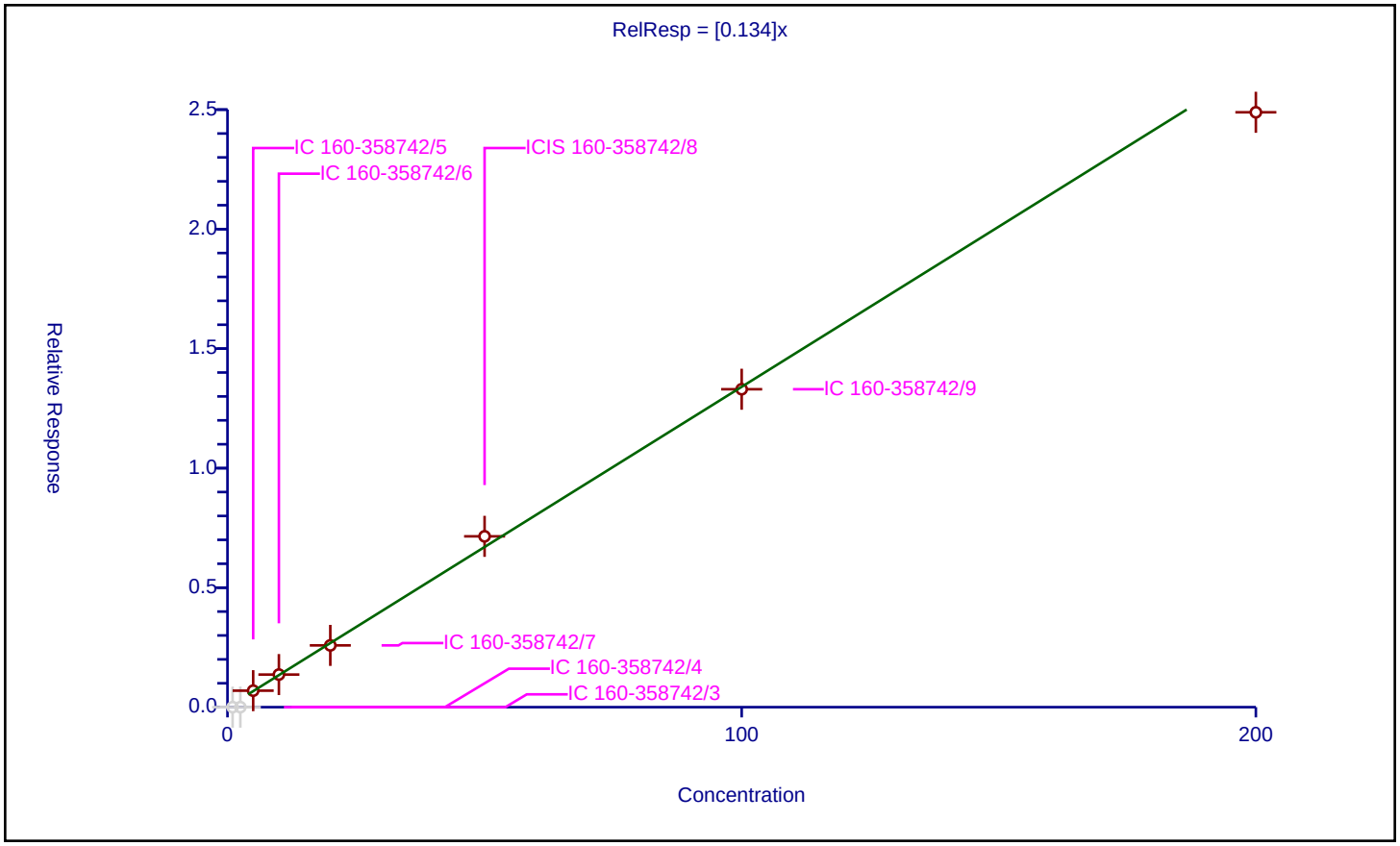
Curve Coefficients

Intercept:	0
Slope:	0.134

Error Coefficients

Standard Error:	515000
Relative Standard Error:	4.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	2.5	0.0	50.0	1806431.0	0.0	N
3	IC 160-358742/5	5.0	0.690418	50.0	1826937.0	0.138084	Y
4	IC 160-358742/6	10.0	1.364163	50.0	1818587.0	0.136416	Y
5	IC 160-358742/7	20.0	2.584597	50.0	1866848.0	0.12923	Y
6	ICIS 160-358742/8	50.0	7.147176	50.0	1931588.0	0.142944	Y
7	IC 160-358742/9	100.0	13.301259	50.0	1975204.0	0.133013	Y
8	IC 160-358742/10	200.0	24.88814	50.0	1969866.0	0.124441	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

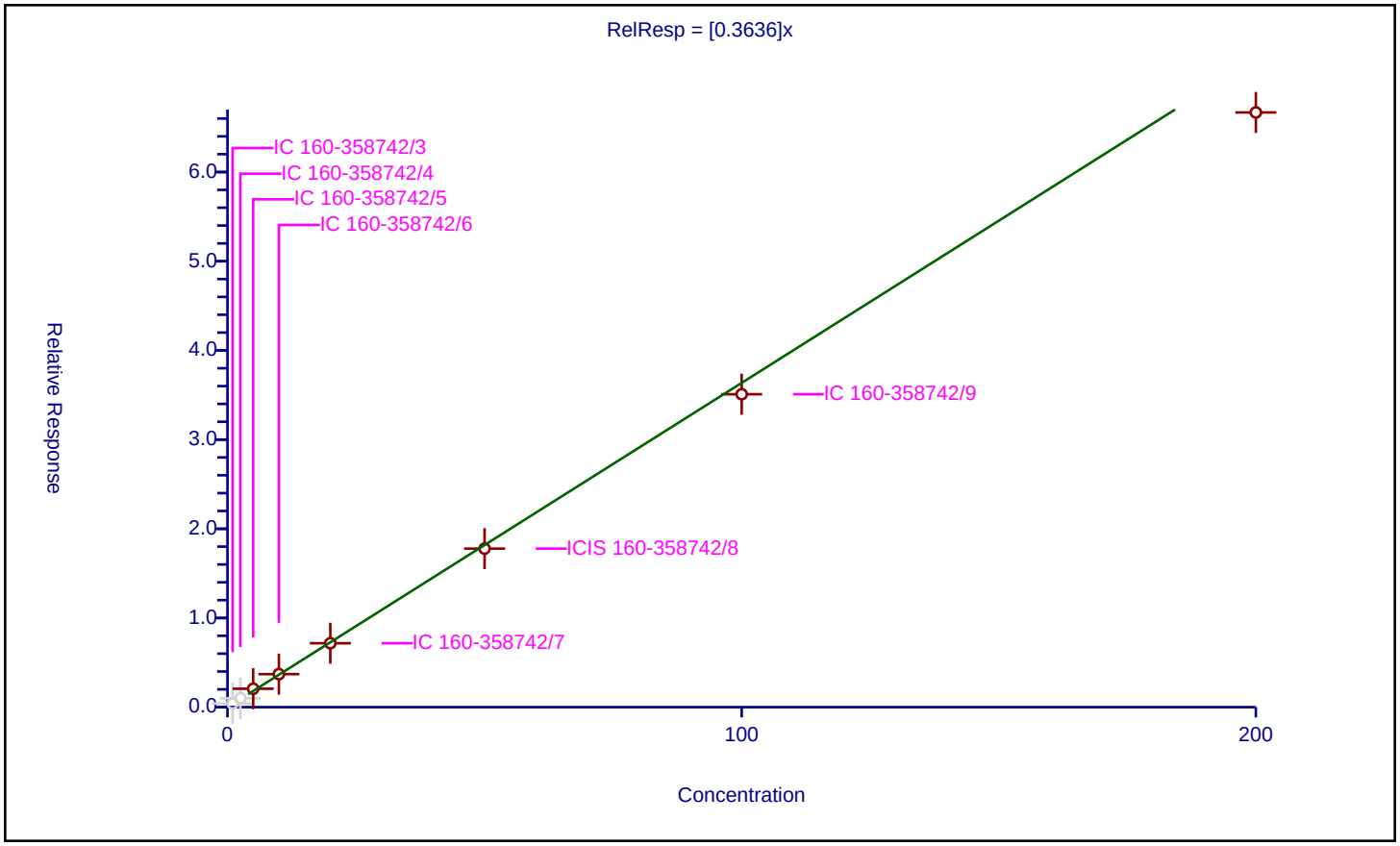
Curve Coefficients

Intercept:	0
Slope:	0.3636

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.418831	50.0	1816365.0	0.418831	N
2	IC 160-358742/4	2.5	0.996661	50.0	1806431.0	0.398665	N
3	IC 160-358742/5	5.0	2.065944	50.0	1826937.0	0.413189	Y
4	IC 160-358742/6	10.0	3.70293	50.0	1818587.0	0.370293	Y
5	IC 160-358742/7	20.0	7.166679	50.0	1866848.0	0.358334	Y
6	ICIS 160-358742/8	50.0	17.776462	50.0	1931588.0	0.355529	Y
7	IC 160-358742/9	100.0	35.086477	50.0	1975204.0	0.350865	Y
8	IC 160-358742/10	200.0	66.683318	50.0	1969866.0	0.333417	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

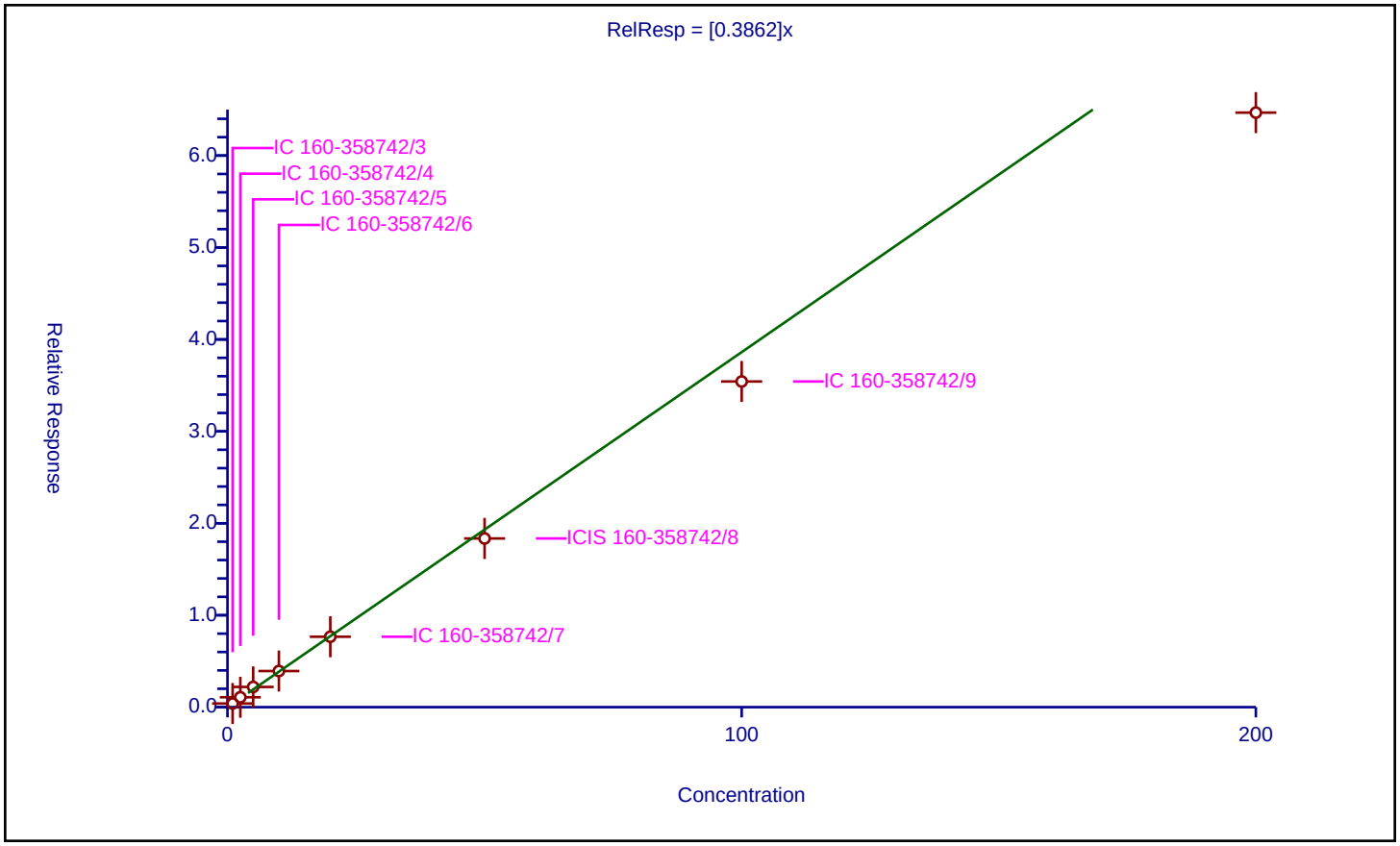
Curve Coefficients

Intercept:	0
Slope:	0.3862

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	10.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.397855	50.0	1816365.0	0.397855	Y
2	IC 160-358742/4	2.5	1.07812	50.0	1806431.0	0.431248	Y
3	IC 160-358742/5	5.0	2.199939	50.0	1826937.0	0.439988	Y
4	IC 160-358742/6	10.0	3.929397	50.0	1818587.0	0.39294	Y
5	IC 160-358742/7	20.0	7.661791	50.0	1866848.0	0.38309	Y
6	ICIS 160-358742/8	50.0	18.349436	50.0	1931588.0	0.366989	Y
7	IC 160-358742/9	100.0	35.425733	50.0	1975204.0	0.354257	Y
8	IC 160-358742/10	200.0	64.671429	50.0	1969866.0	0.323357	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

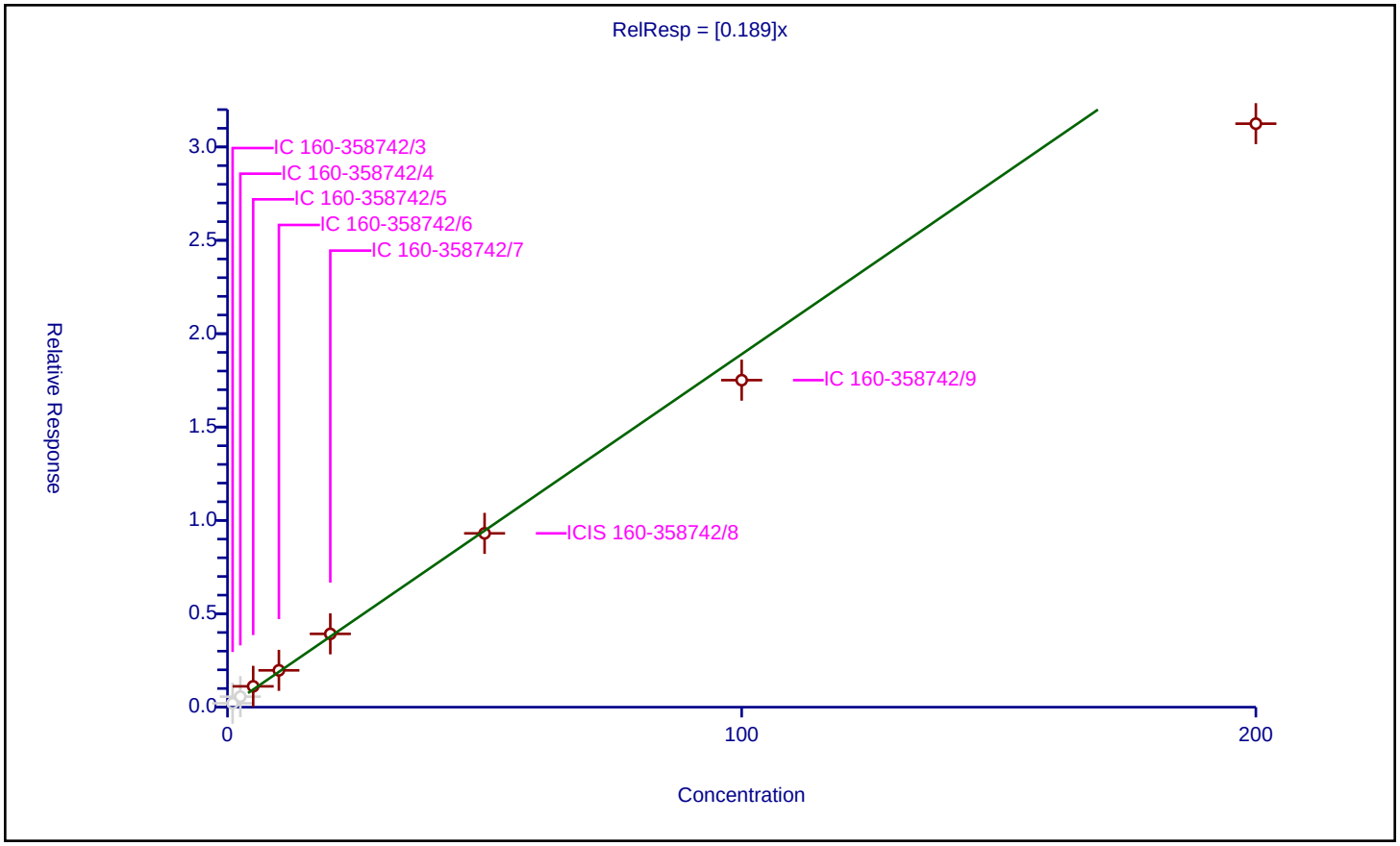
Curve Coefficients

Intercept:	0
Slope:	0.189

Error Coefficients

Standard Error:	656000
Relative Standard Error:	12.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.207805	50.0	1816365.0	0.207805	N
2	IC 160-358742/4	2.5	0.562407	50.0	1806431.0	0.224963	N
3	IC 160-358742/5	5.0	1.115802	50.0	1826937.0	0.22316	Y
4	IC 160-358742/6	10.0	1.972328	50.0	1818587.0	0.197233	Y
5	IC 160-358742/7	20.0	3.925494	50.0	1866848.0	0.196275	Y
6	ICIS 160-358742/8	50.0	9.30742	50.0	1931588.0	0.186148	Y
7	IC 160-358742/9	100.0	17.51133	50.0	1975204.0	0.175113	Y
8	IC 160-358742/10	200.0	31.247202	50.0	1969866.0	0.156236	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

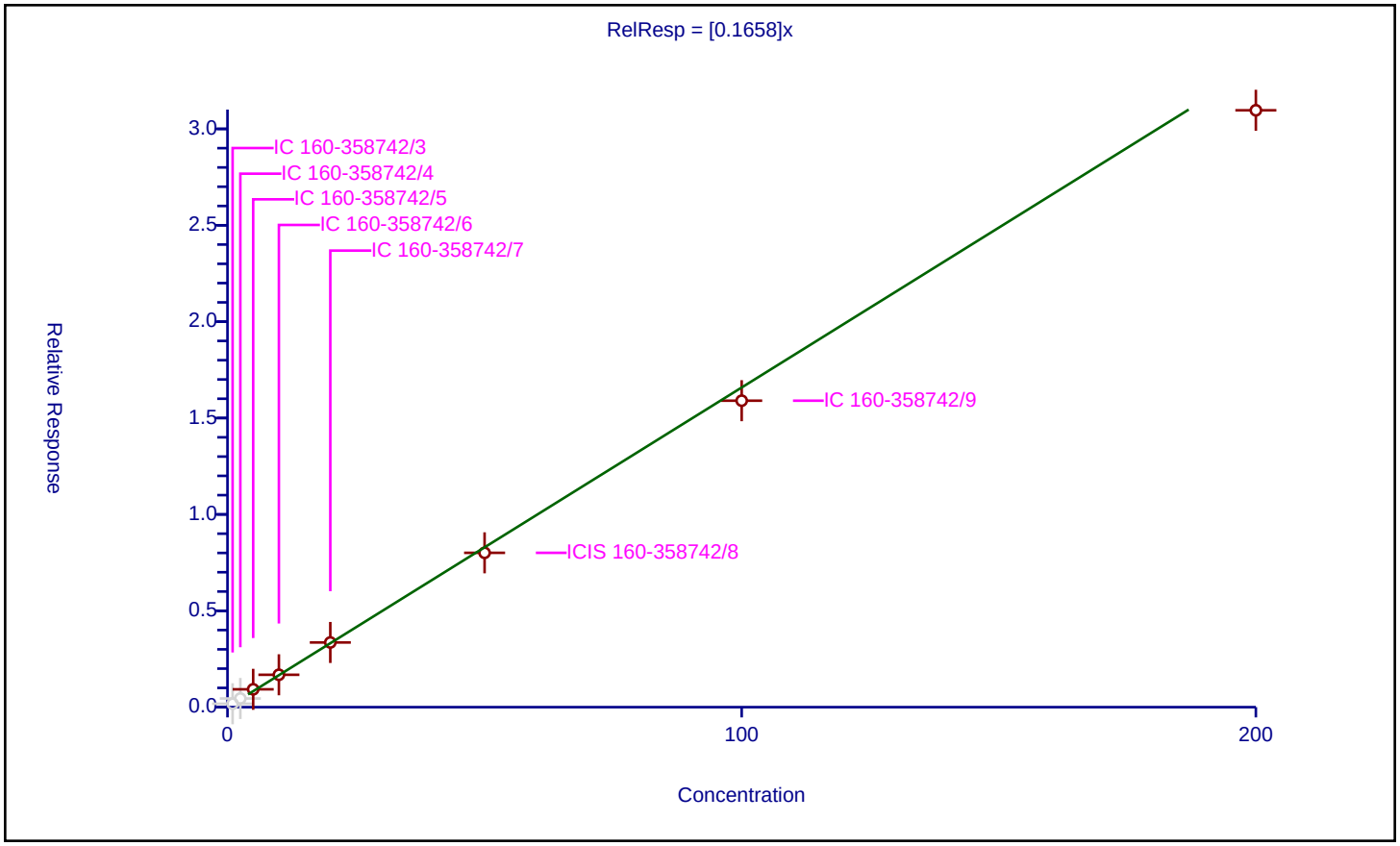
Curve Coefficients

Intercept:	0
Slope:	0.1658

Error Coefficients

Standard Error:	632000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.177828	50.0	1816365.0	0.177828	N
2	IC 160-358742/4	2.5	0.449782	50.0	1806431.0	0.179913	N
3	IC 160-358742/5	5.0	0.925921	50.0	1826937.0	0.185184	Y
4	IC 160-358742/6	10.0	1.680783	50.0	1818587.0	0.168078	Y
5	IC 160-358742/7	20.0	3.356299	50.0	1866848.0	0.167815	Y
6	ICIS 160-358742/8	50.0	8.006676	50.0	1931588.0	0.160134	Y
7	IC 160-358742/9	100.0	15.899472	50.0	1975204.0	0.158995	Y
8	IC 160-358742/10	200.0	30.965279	50.0	1969866.0	0.154826	Y



Calibration / Chloroethane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

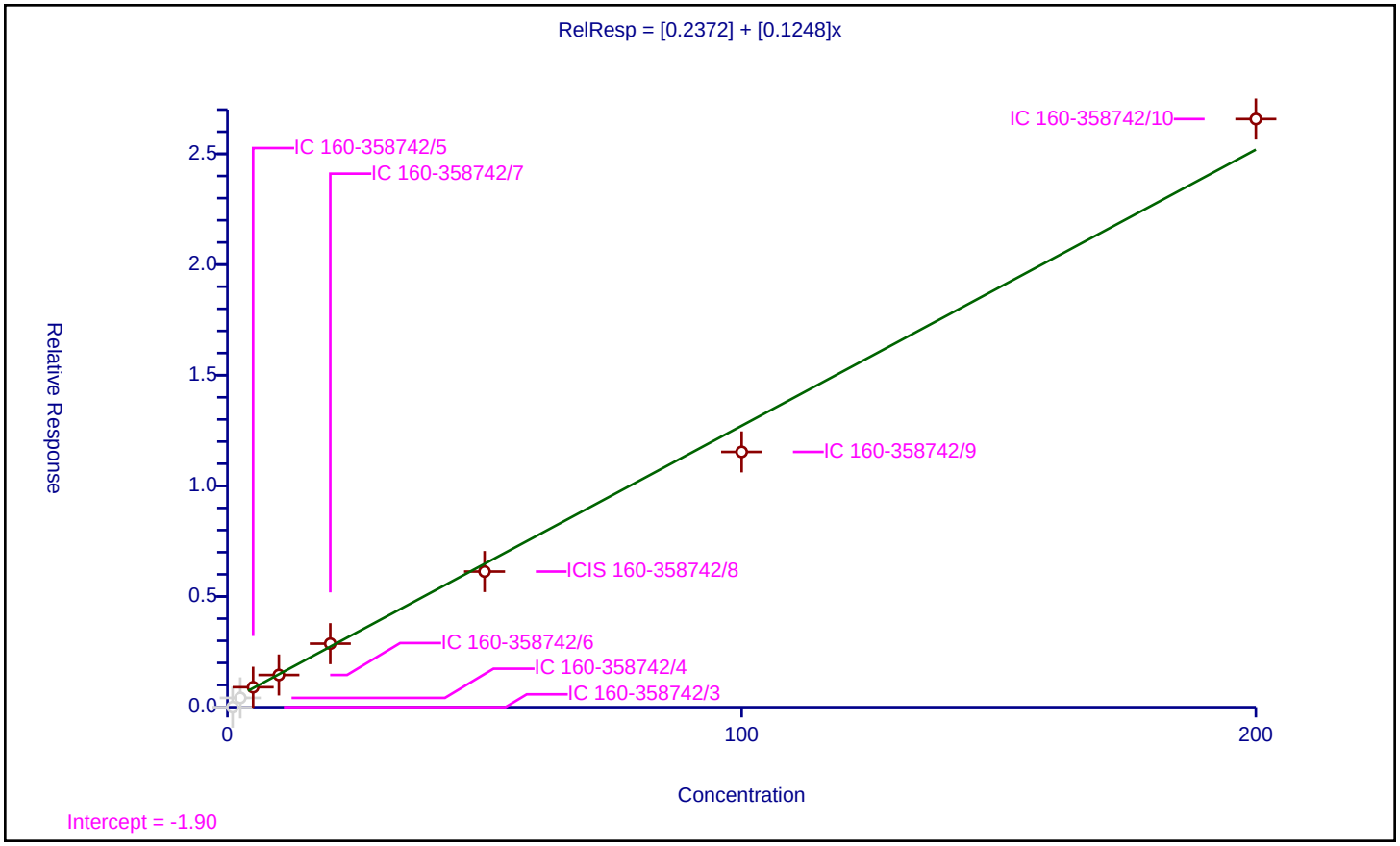
Curve Coefficients

Intercept:	0.2372
Slope:	0.1248

Error Coefficients

Standard Error:	586000
Relative Standard Error:	7.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	2.5	0.418532	50.0	1806431.0	0.167413	N
3	IC 160-358742/5	5.0	0.901181	50.0	1826937.0	0.180236	Y
4	IC 160-358742/6	10.0	1.454783	50.0	1818587.0	0.145478	Y
5	IC 160-358742/7	20.0	2.870185	50.0	1866848.0	0.143509	Y
6	ICIS 160-358742/8	50.0	6.128377	50.0	1931588.0	0.122568	Y
7	IC 160-358742/9	100.0	11.533796	50.0	1975204.0	0.115338	Y
8	IC 160-358742/10	200.0	26.574143	50.0	1969866.0	0.132871	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

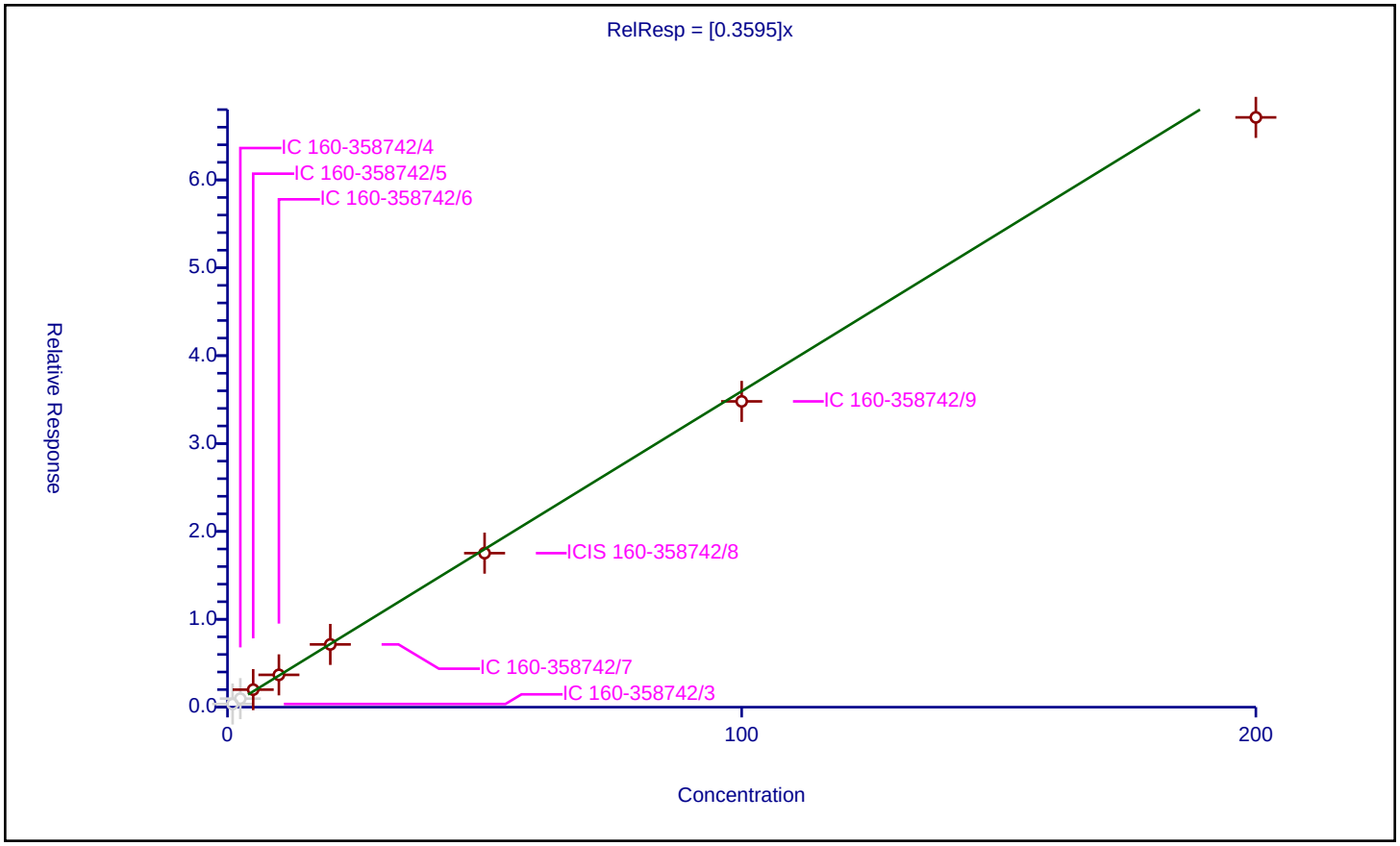
Curve Coefficients

Intercept:	0
Slope:	0.3595

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.359372	50.0	1816365.0	0.359372	N
2	IC 160-358742/4	2.5	0.969481	50.0	1806431.0	0.387792	N
3	IC 160-358742/5	5.0	1.992762	50.0	1826937.0	0.398552	Y
4	IC 160-358742/6	10.0	3.676096	50.0	1818587.0	0.36761	Y
5	IC 160-358742/7	20.0	7.13936	50.0	1866848.0	0.356968	Y
6	ICIS 160-358742/8	50.0	17.524493	50.0	1931588.0	0.35049	Y
7	IC 160-358742/9	100.0	34.797849	50.0	1975204.0	0.347978	Y
8	IC 160-358742/10	200.0	67.113398	50.0	1969866.0	0.335567	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

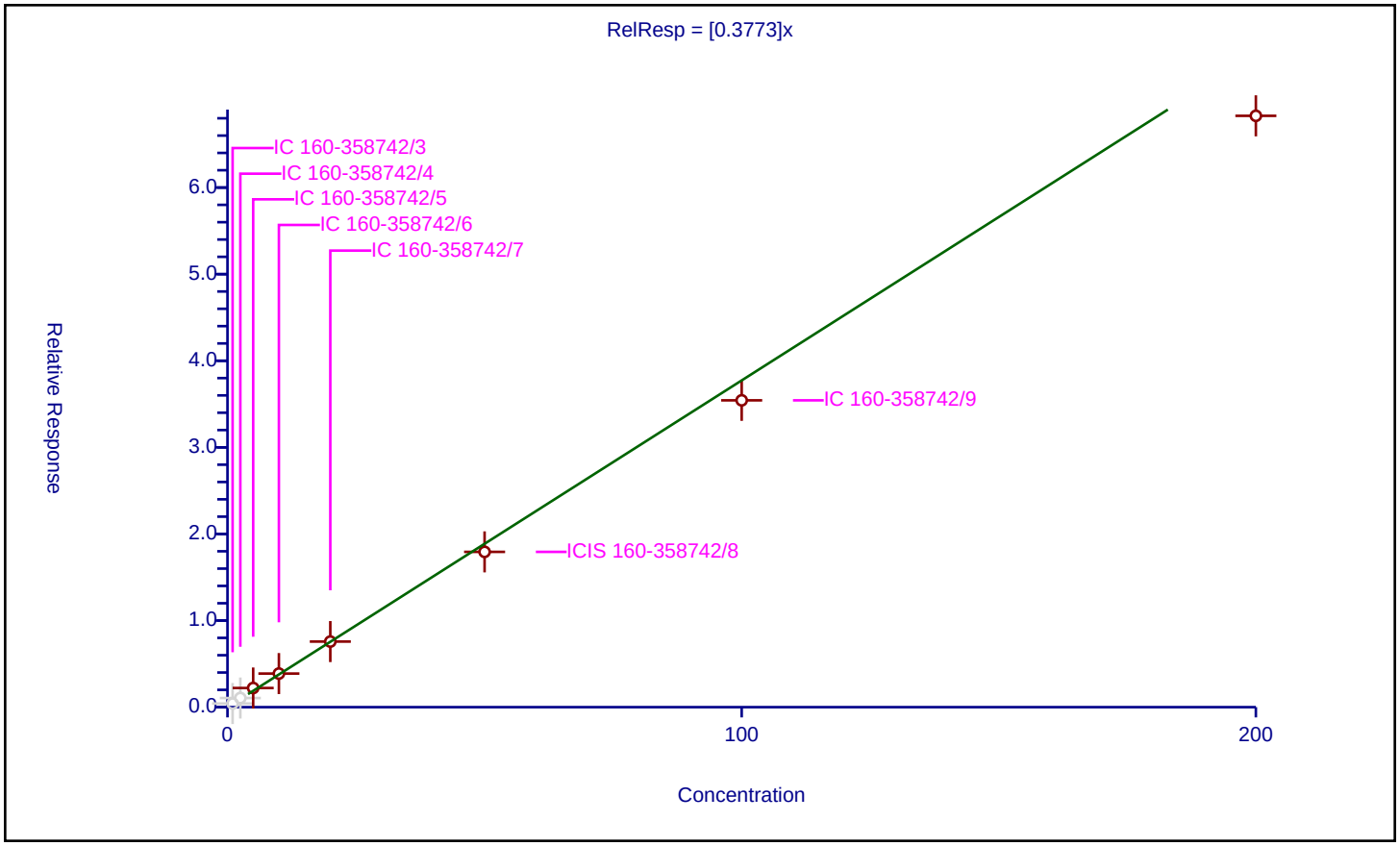
Curve Coefficients

Intercept:	0
Slope:	0.3773

Error Coefficients

Standard Error:	1400000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.420758	50.0	1816365.0	0.420758	N
2	IC 160-358742/4	2.5	1.055534	50.0	1806431.0	0.422214	N
3	IC 160-358742/5	5.0	2.213678	50.0	1826937.0	0.442736	Y
4	IC 160-358742/6	10.0	3.880073	50.0	1818587.0	0.388007	Y
5	IC 160-358742/7	20.0	7.573488	50.0	1866848.0	0.378674	Y
6	ICIS 160-358742/8	50.0	17.932085	50.0	1931588.0	0.358642	Y
7	IC 160-358742/9	100.0	35.429986	50.0	1975204.0	0.3543	Y
8	IC 160-358742/10	200.0	68.283299	50.0	1969866.0	0.341416	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

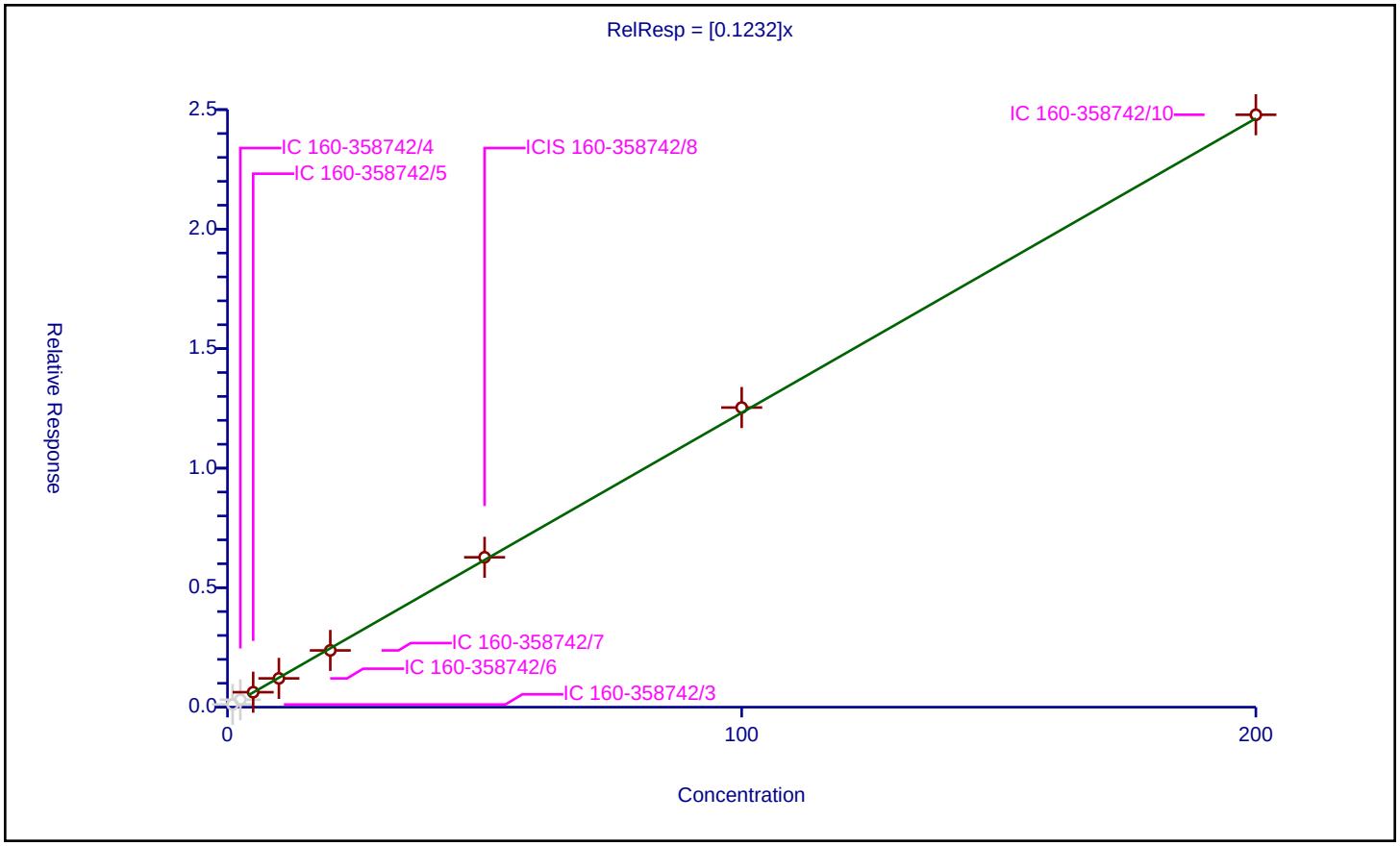
Curve Coefficients

Intercept:	0
Slope:	0.1232

Error Coefficients

Standard Error:	504000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.112863	50.0	1816365.0	0.112863	N
2	IC 160-358742/4	2.5	0.311913	50.0	1806431.0	0.124765	N
3	IC 160-358742/5	5.0	0.625665	50.0	1826937.0	0.125133	Y
4	IC 160-358742/6	10.0	1.204149	50.0	1818587.0	0.120415	Y
5	IC 160-358742/7	20.0	2.374028	50.0	1866848.0	0.118701	Y
6	ICIS 160-358742/8	50.0	6.270825	50.0	1931588.0	0.125416	Y
7	IC 160-358742/9	100.0	12.535136	50.0	1975204.0	0.125351	Y
8	IC 160-358742/10	200.0	24.785417	50.0	1969866.0	0.123927	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

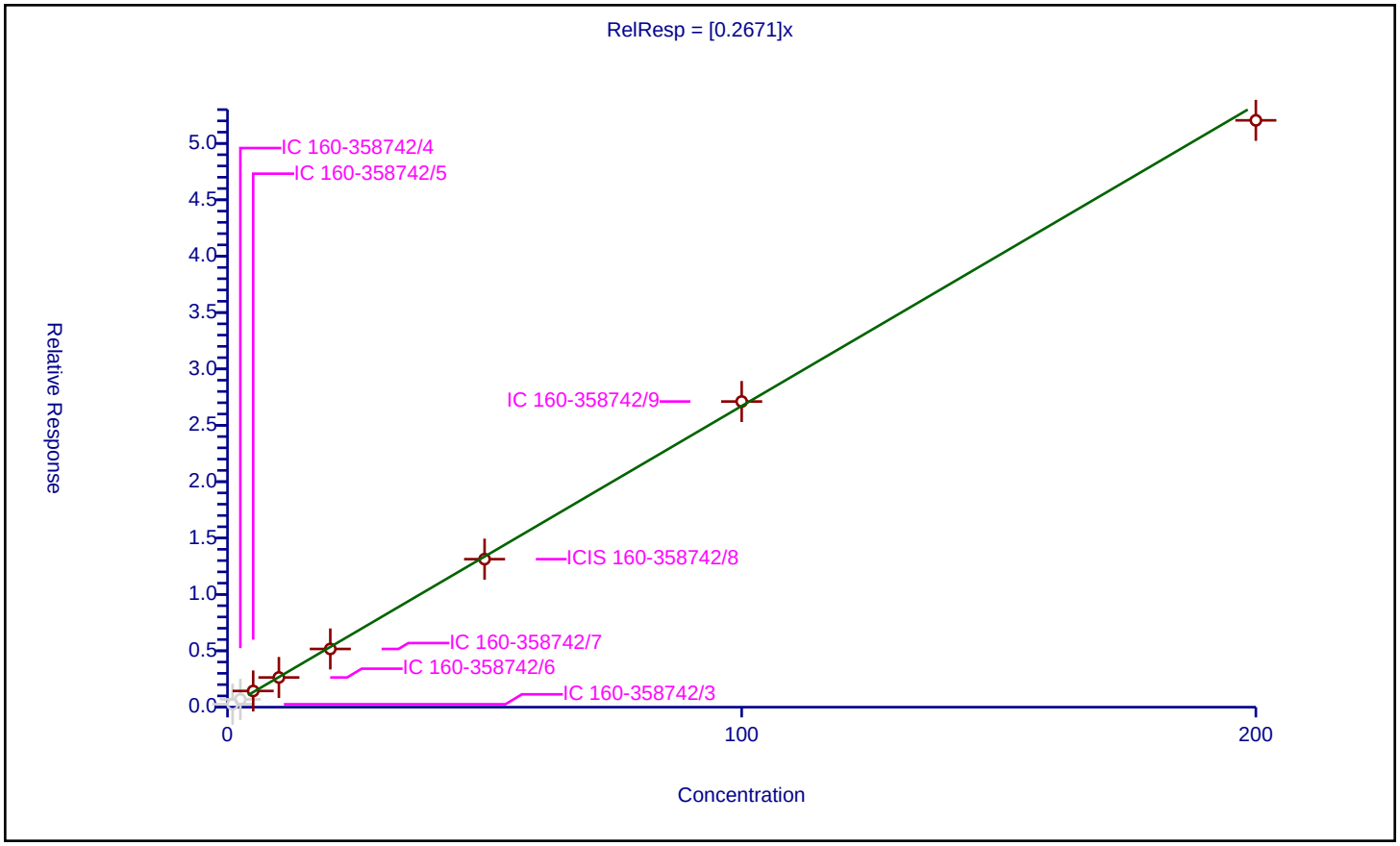
Curve Coefficients

Intercept:	0
Slope:	0.2671

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.259502	50.0	1816365.0	0.259502	N
2	IC 160-358742/4	2.5	0.692	50.0	1806431.0	0.2768	N
3	IC 160-358742/5	5.0	1.436475	50.0	1826937.0	0.287295	Y
4	IC 160-358742/6	10.0	2.633886	50.0	1818587.0	0.263389	Y
5	IC 160-358742/7	20.0	5.161802	50.0	1866848.0	0.25809	Y
6	ICIS 160-358742/8	50.0	13.128291	50.0	1931588.0	0.262566	Y
7	IC 160-358742/9	100.0	27.110086	50.0	1975204.0	0.271101	Y
8	IC 160-358742/10	200.0	52.048236	50.0	1969866.0	0.260241	Y



Calibration / Ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

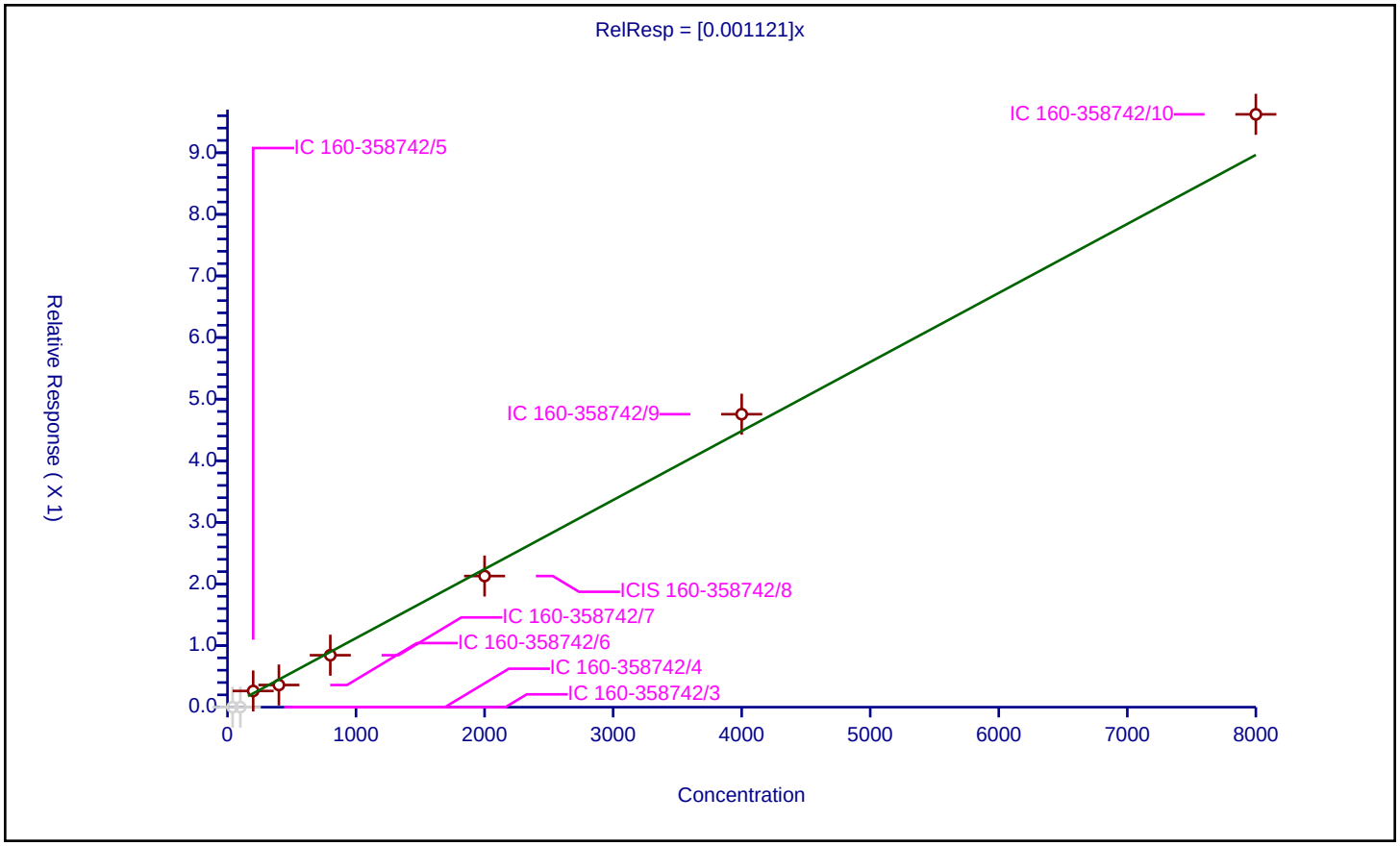
Curve Coefficients

Intercept:	0
Slope:	0.001121

Error Coefficients

Standard Error:	193000
Relative Standard Error:	13.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	40.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	100.0	0.0	50.0	1806431.0	0.0	N
3	IC 160-358742/5	200.0	0.26279	50.0	1826937.0	0.001314	Y
4	IC 160-358742/6	400.0	0.359675	50.0	1818587.0	0.000899	Y
5	IC 160-358742/7	800.0	0.843481	50.0	1866848.0	0.001054	Y
6	ICIS 160-358742/8	2000.0	2.128663	50.0	1931588.0	0.001064	Y
7	IC 160-358742/9	4000.0	4.75561	50.0	1975204.0	0.001189	Y
8	IC 160-358742/10	8000.0	9.623421	50.0	1969866.0	0.001203	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

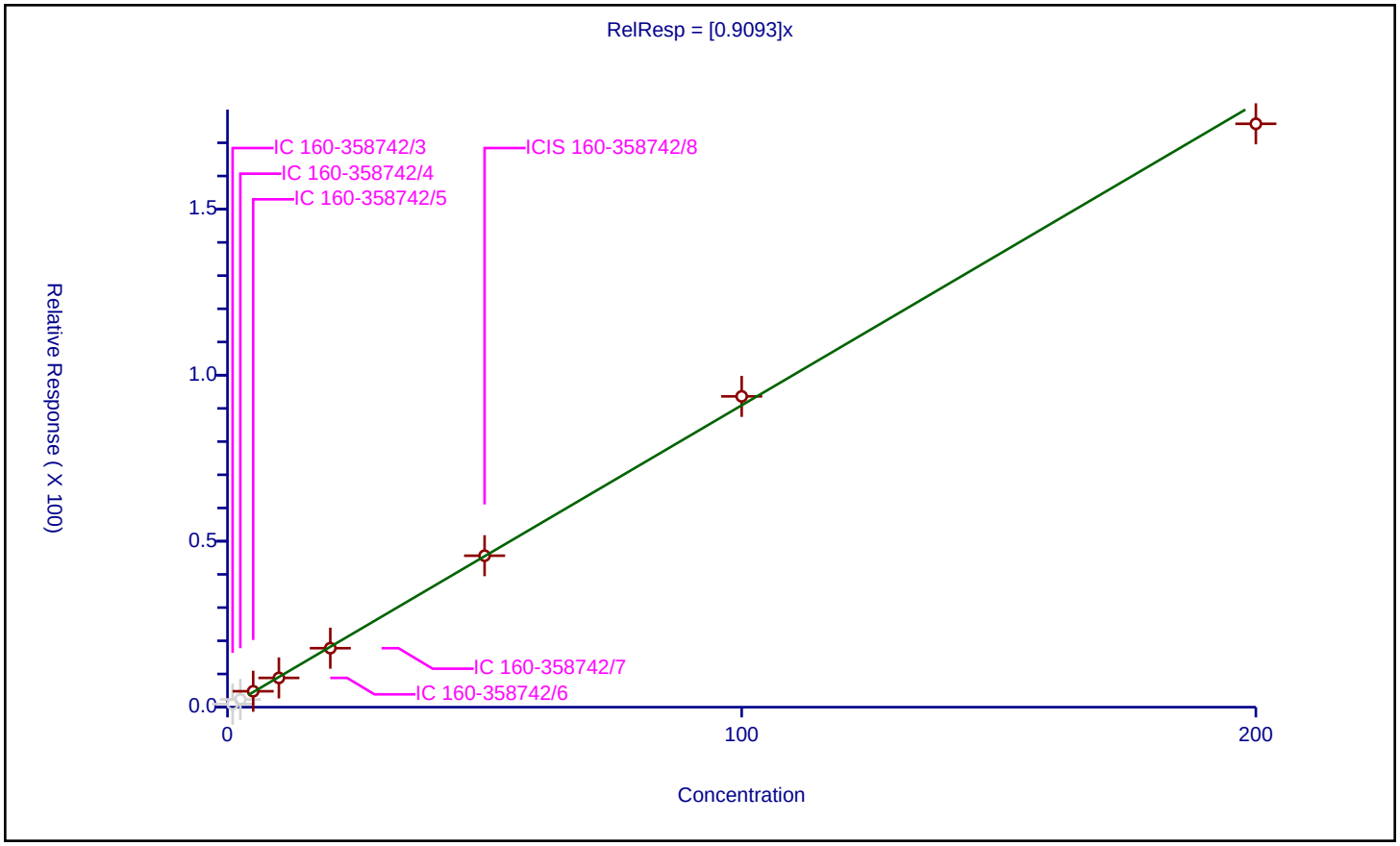
Curve Coefficients

Intercept:	0
Slope:	0.9093

Error Coefficients

Standard Error:	3610000
Relative Standard Error:	3.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.920988	50.0	1816365.0	0.920988	N
2	IC 160-358742/4	2.5	2.328819	50.0	1806431.0	0.931527	N
3	IC 160-358742/5	5.0	4.795157	50.0	1826937.0	0.959031	Y
4	IC 160-358742/6	10.0	8.811621	50.0	1818587.0	0.881162	Y
5	IC 160-358742/7	20.0	17.76173	50.0	1866848.0	0.888086	Y
6	ICIS 160-358742/8	50.0	45.626474	50.0	1931588.0	0.912529	Y
7	IC 160-358742/9	100.0	93.623646	50.0	1975204.0	0.936236	Y
8	IC 160-358742/10	200.0	175.727918	50.0	1969866.0	0.87864	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

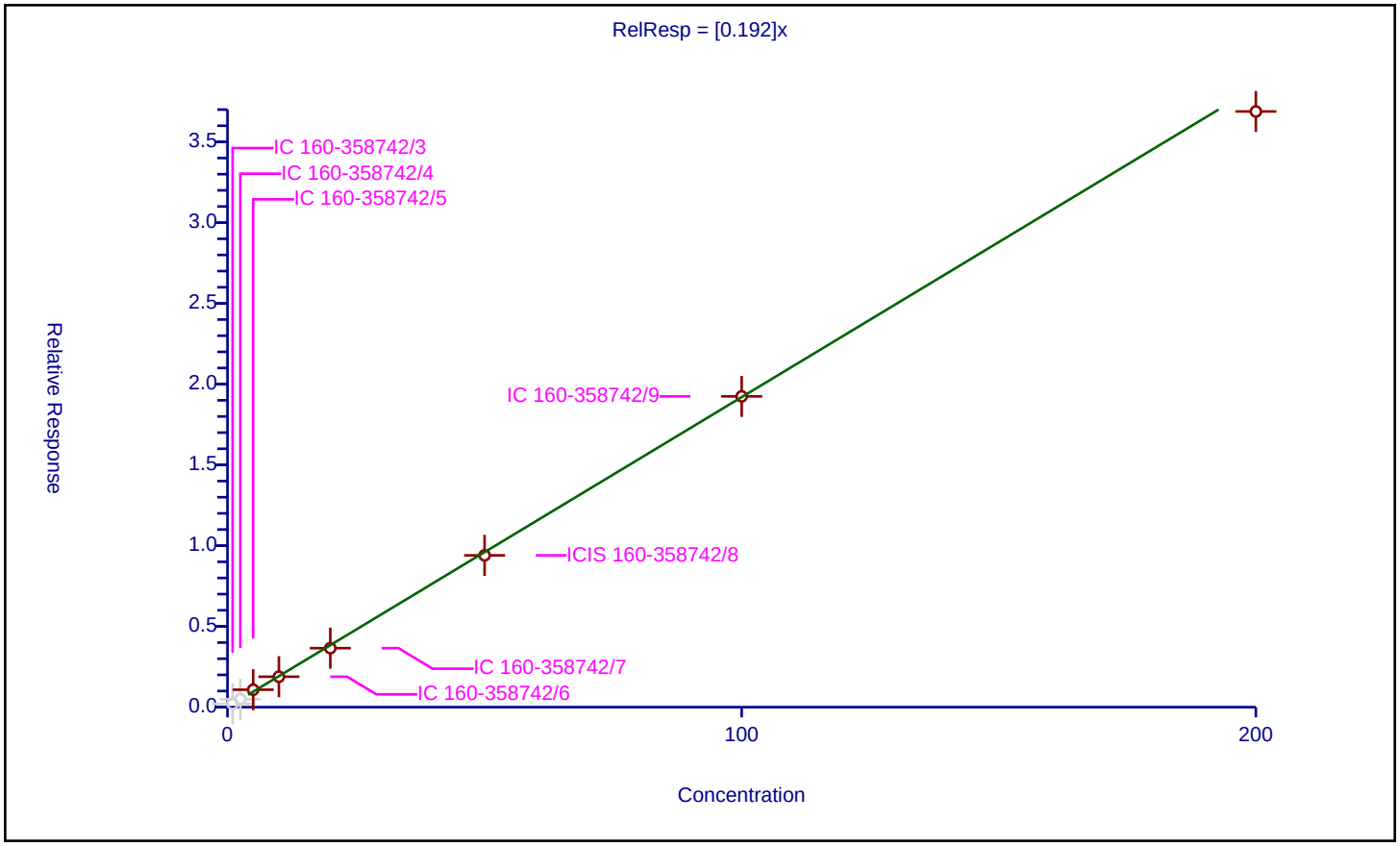
Curve Coefficients

Intercept:	0
Slope:	0.192

Error Coefficients

Standard Error:	754000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.201942	50.0	1816365.0	0.201942	N
2	IC 160-358742/4	2.5	0.489307	50.0	1806431.0	0.195723	N
3	IC 160-358742/5	5.0	1.079512	50.0	1826937.0	0.215902	Y
4	IC 160-358742/6	10.0	1.884787	50.0	1818587.0	0.188479	Y
5	IC 160-358742/7	20.0	3.652734	50.0	1866848.0	0.182637	Y
6	ICIS 160-358742/8	50.0	9.399753	50.0	1931588.0	0.187995	Y
7	IC 160-358742/9	100.0	19.242671	50.0	1975204.0	0.192427	Y
8	IC 160-358742/10	200.0	36.88426	50.0	1969866.0	0.184421	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

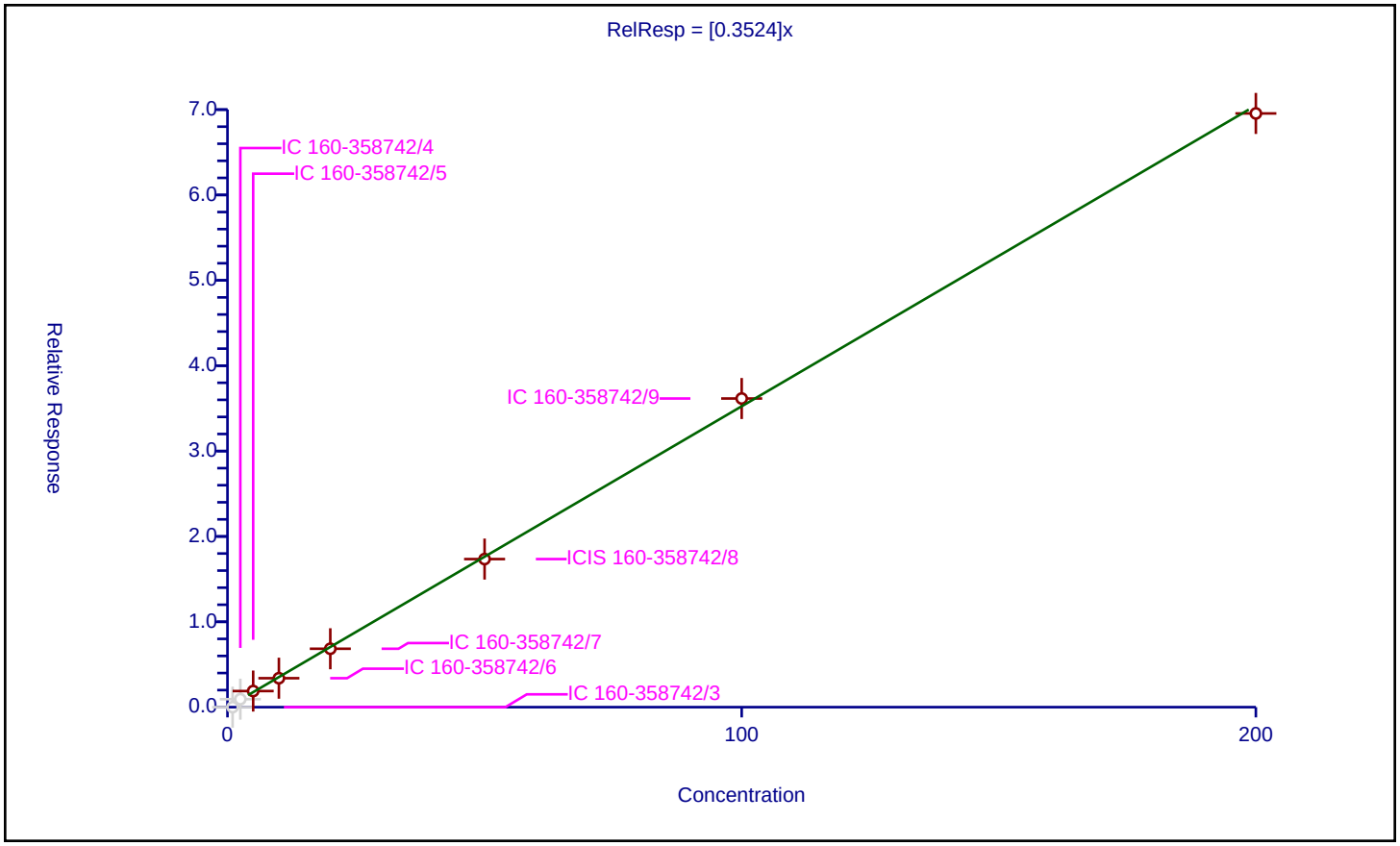
Curve Coefficients

Intercept:	0
Slope:	0.3524

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	2.5	0.936626	50.0	1806431.0	0.37465	N
3	IC 160-358742/5	5.0	1.886135	50.0	1826937.0	0.377227	Y
4	IC 160-358742/6	10.0	3.391204	50.0	1818587.0	0.33912	Y
5	IC 160-358742/7	20.0	6.84196	50.0	1866848.0	0.342098	Y
6	ICIS 160-358742/8	50.0	17.346867	50.0	1931588.0	0.346937	Y
7	IC 160-358742/9	100.0	36.156949	50.0	1975204.0	0.361569	Y
8	IC 160-358742/10	200.0	69.549528	50.0	1969866.0	0.347748	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

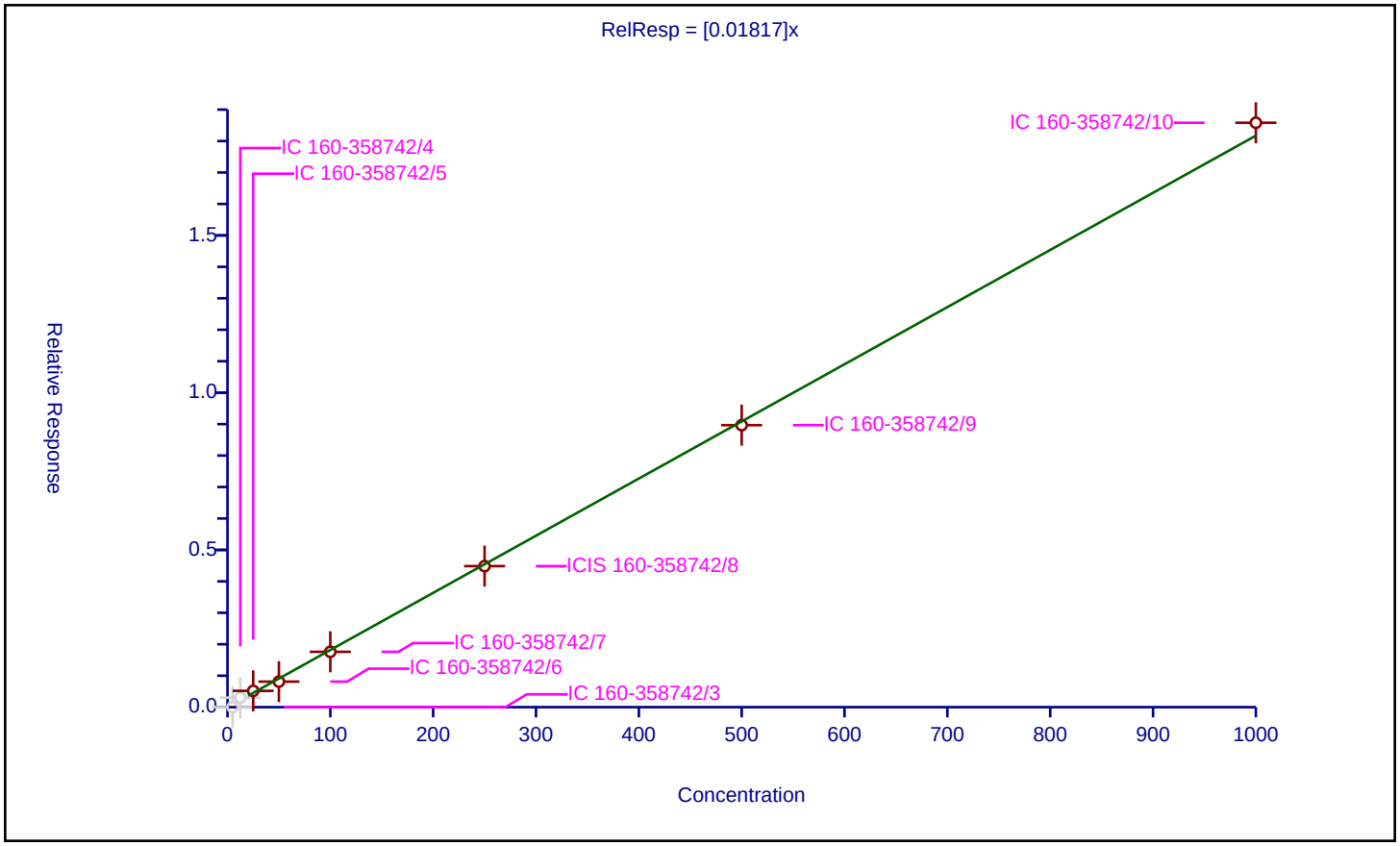
Curve Coefficients

Intercept:	0
Slope:	0.01817

Error Coefficients

Standard Error:	373000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	5.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	12.5	0.302613	50.0	1806431.0	0.024209	N
3	IC 160-358742/5	25.0	0.518244	50.0	1826937.0	0.02073	Y
4	IC 160-358742/6	50.0	0.812416	50.0	1818587.0	0.016248	Y
5	IC 160-358742/7	100.0	1.759945	50.0	1866848.0	0.017599	Y
6	ICIS 160-358742/8	250.0	4.484083	50.0	1931588.0	0.017936	Y
7	IC 160-358742/9	500.0	8.967175	50.0	1975204.0	0.017934	Y
8	IC 160-358742/10	1000.0	18.581619	50.0	1969866.0	0.018582	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

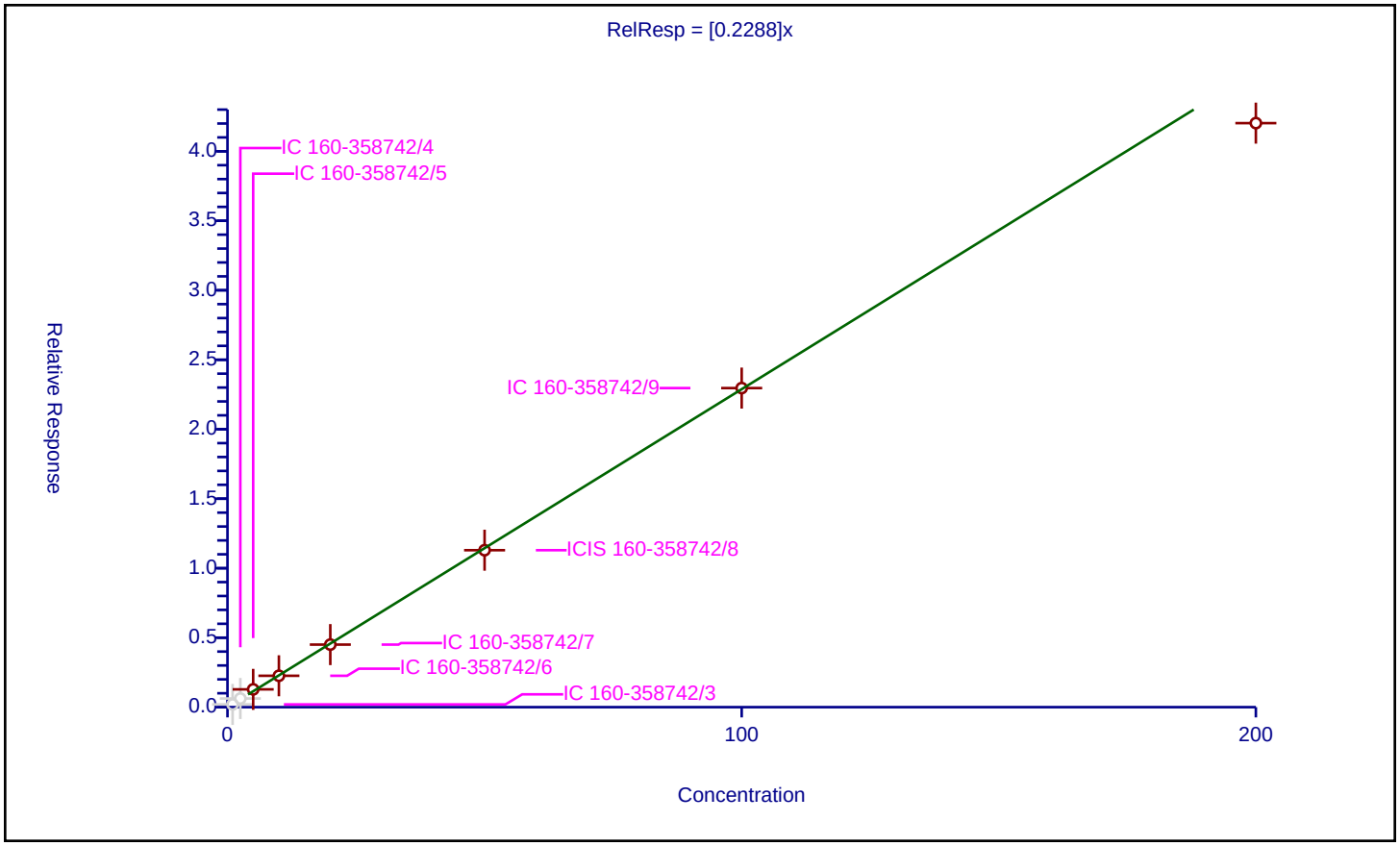
Curve Coefficients

Intercept:	0
Slope:	0.2288

Error Coefficients

Standard Error:	871000
Relative Standard Error:	6.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.198859	50.0	1816365.0	0.198859	N
2	IC 160-358742/4	2.5	0.62272	50.0	1806431.0	0.249088	N
3	IC 160-358742/5	5.0	1.281024	50.0	1826937.0	0.256205	Y
4	IC 160-358742/6	10.0	2.259776	50.0	1818587.0	0.225978	Y
5	IC 160-358742/7	20.0	4.502643	50.0	1866848.0	0.225132	Y
6	ICIS 160-358742/8	50.0	11.294645	50.0	1931588.0	0.225893	Y
7	IC 160-358742/9	100.0	22.960616	50.0	1975204.0	0.229606	Y
8	IC 160-358742/10	200.0	42.027224	50.0	1969866.0	0.210136	Y



Calibration / Isopropyl alcohol

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

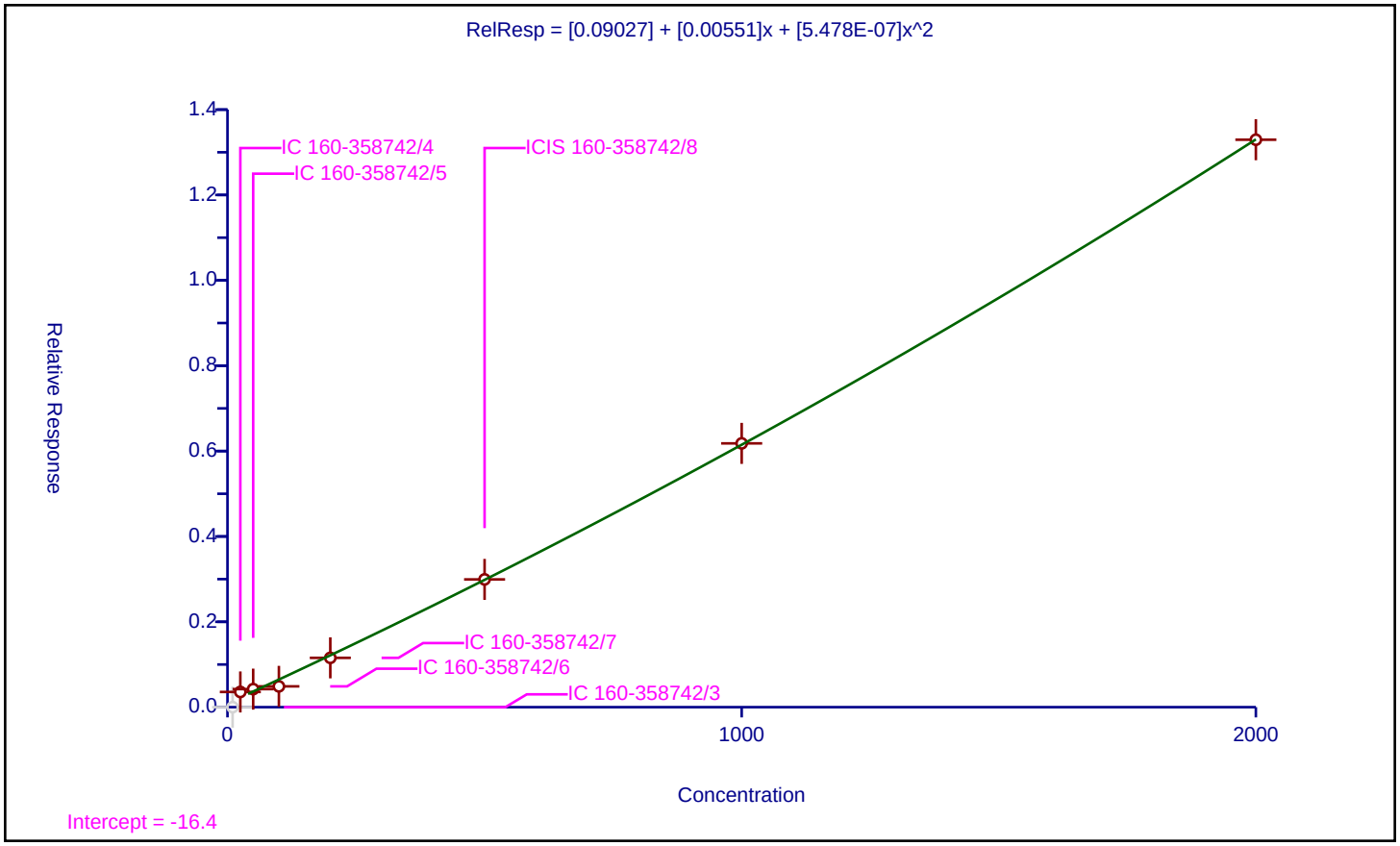
Curve Coefficients

Intercept:	0.09027
Slope:	0.00551
Second Order:	5.478E-07

Error Coefficients

Standard Error:	296000
Relative Standard Error:	49.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	10.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	25.0	0.356615	50.0	1806431.0	0.014265	Y
3	IC 160-358742/5	50.0	0.42262	50.0	1826937.0	0.008452	Y
4	IC 160-358742/6	100.0	0.487136	50.0	1818587.0	0.004871	Y
5	IC 160-358742/7	200.0	1.15529	50.0	1866848.0	0.005776	Y
6	ICIS 160-358742/8	500.0	2.99334	50.0	1931588.0	0.005987	Y
7	IC 160-358742/9	1000.0	6.18002	50.0	1975204.0	0.00618	Y
8	IC 160-358742/10	2000.0	13.294483	50.0	1969866.0	0.006647	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

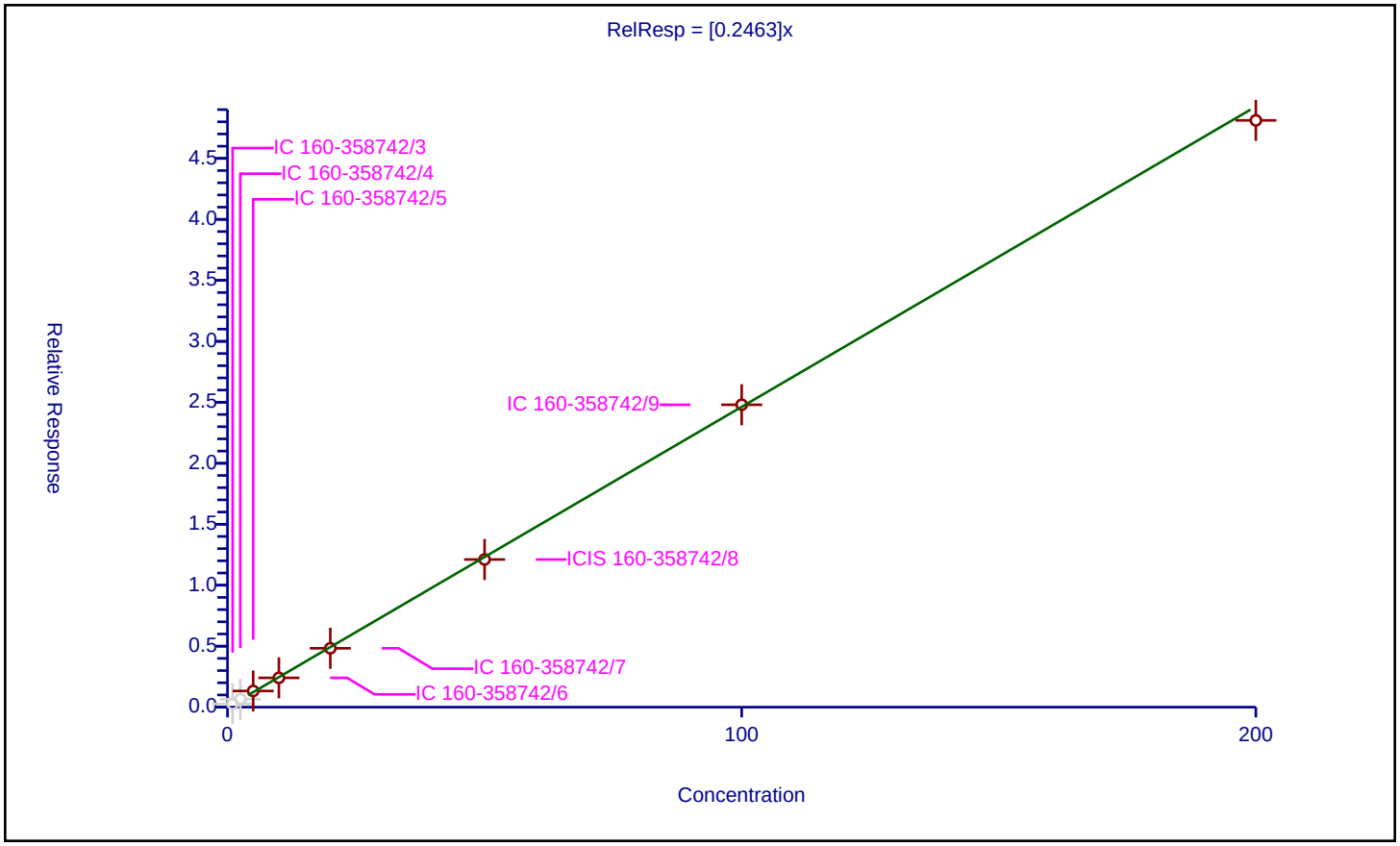
Curve Coefficients

Intercept:	0
Slope:	0.2463

Error Coefficients

Standard Error:	981000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.263851	50.0	1816365.0	0.263851	N
2	IC 160-358742/4	2.5	0.649983	50.0	1806431.0	0.259993	N
3	IC 160-358742/5	5.0	1.326483	50.0	1826937.0	0.265297	Y
4	IC 160-358742/6	10.0	2.402882	50.0	1818587.0	0.240288	Y
5	IC 160-358742/7	20.0	4.826826	50.0	1866848.0	0.241341	Y
6	ICIS 160-358742/8	50.0	12.108742	50.0	1931588.0	0.242175	Y
7	IC 160-358742/9	100.0	24.796578	50.0	1975204.0	0.247966	Y
8	IC 160-358742/10	200.0	48.116775	50.0	1969866.0	0.240584	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

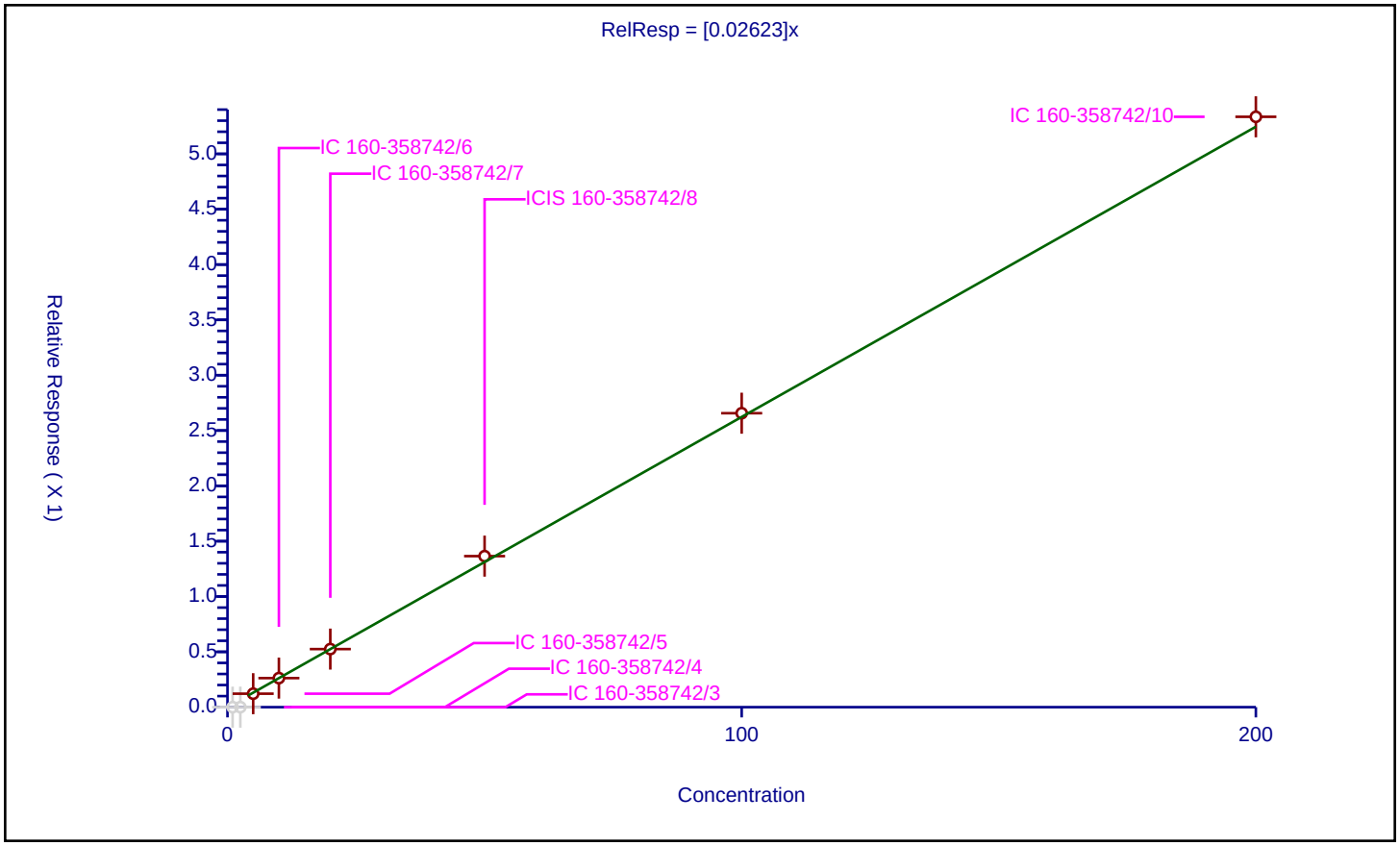
Curve Coefficients

Intercept:	0
Slope:	0.02623

Error Coefficients

Standard Error:	108000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	2.5	0.0	50.0	1806431.0	0.0	N
3	IC 160-358742/5	5.0	0.121734	50.0	1826937.0	0.024347	Y
4	IC 160-358742/6	10.0	0.262484	50.0	1818587.0	0.026248	Y
5	IC 160-358742/7	20.0	0.524762	50.0	1866848.0	0.026238	Y
6	ICIS 160-358742/8	50.0	1.364861	50.0	1931588.0	0.027297	Y
7	IC 160-358742/9	100.0	2.656359	50.0	1975204.0	0.026564	Y
8	IC 160-358742/10	200.0	5.335084	50.0	1969866.0	0.026675	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

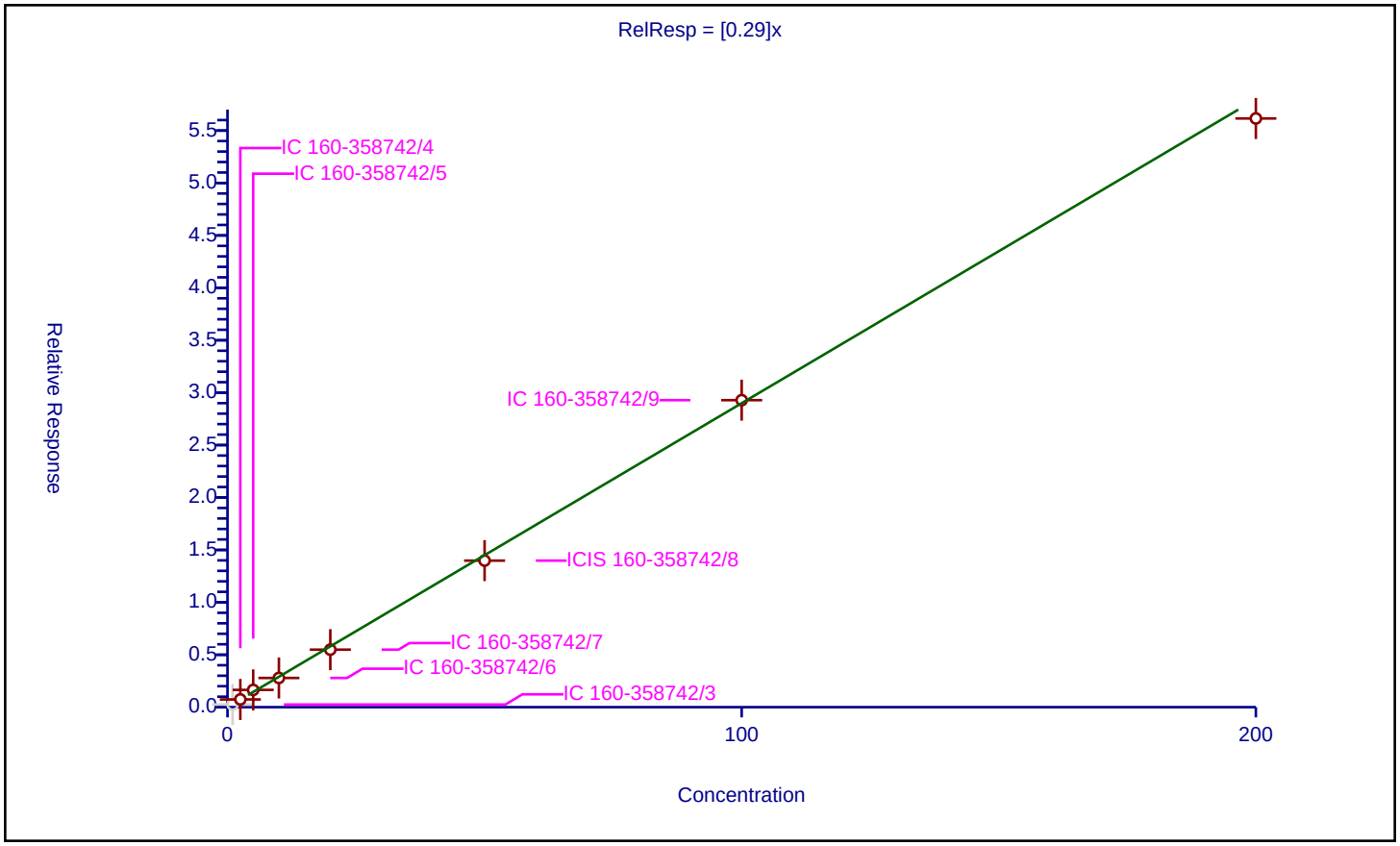
Curve Coefficients

Intercept:	0
Slope:	0.29

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.252235	50.0	1816365.0	0.252235	N
2	IC 160-358742/4	2.5	0.736784	50.0	1806431.0	0.294714	Y
3	IC 160-358742/5	5.0	1.644337	50.0	1826937.0	0.328867	Y
4	IC 160-358742/6	10.0	2.785982	50.0	1818587.0	0.278598	Y
5	IC 160-358742/7	20.0	5.485235	50.0	1866848.0	0.274262	Y
6	ICIS 160-358742/8	50.0	13.980078	50.0	1931588.0	0.279602	Y
7	IC 160-358742/9	100.0	29.285279	50.0	1975204.0	0.292853	Y
8	IC 160-358742/10	200.0	56.155774	50.0	1969866.0	0.280779	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

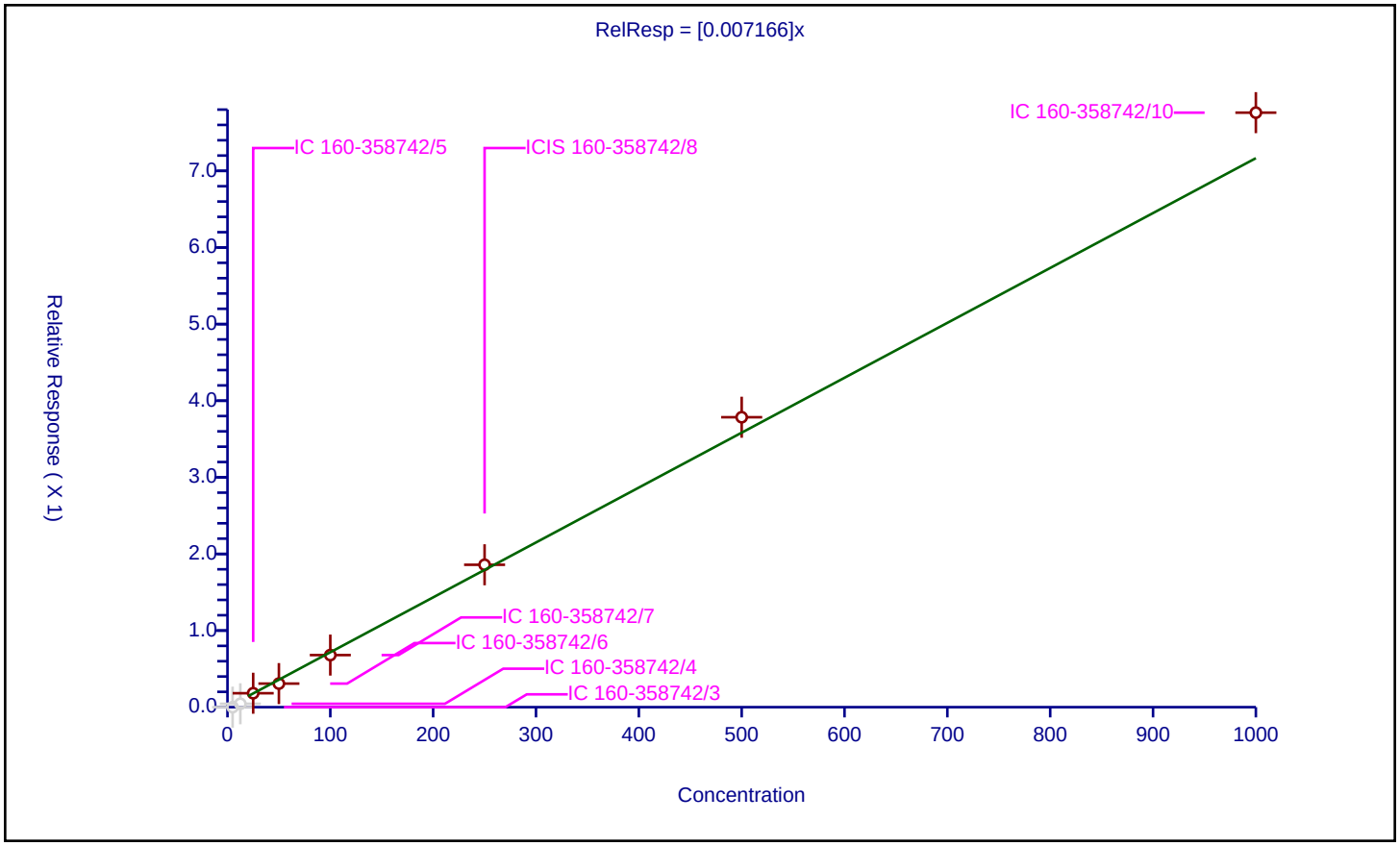
Curve Coefficients

Intercept:	0
Slope:	0.007166

Error Coefficients

Standard Error:	156000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	5.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	12.5	0.044203	50.0	1806431.0	0.003536	N
3	IC 160-358742/5	25.0	0.181917	50.0	1826937.0	0.007277	Y
4	IC 160-358742/6	50.0	0.307794	50.0	1818587.0	0.006156	Y
5	IC 160-358742/7	100.0	0.67997	50.0	1866848.0	0.0068	Y
6	ICIS 160-358742/8	250.0	1.858756	50.0	1931588.0	0.007435	Y
7	IC 160-358742/9	500.0	3.78452	50.0	1975204.0	0.007569	Y
8	IC 160-358742/10	1000.0	7.760477	50.0	1969866.0	0.00776	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

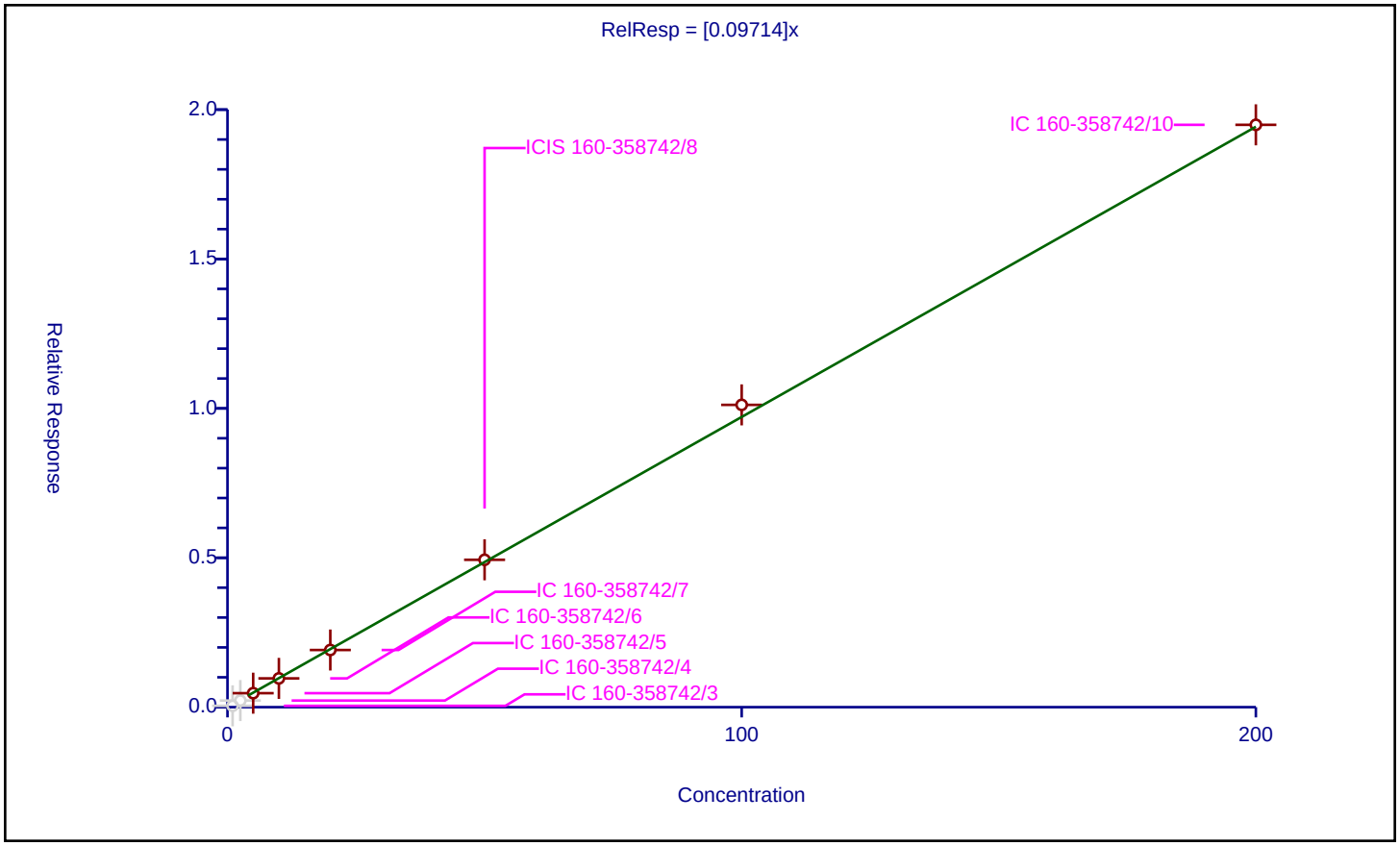
Curve Coefficients

Intercept:	0
Slope:	0.09714

Error Coefficients

Standard Error:	398000
Relative Standard Error:	2.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.045063	50.0	1816365.0	0.045063	N
2	IC 160-358742/4	2.5	0.220961	50.0	1806431.0	0.088384	N
3	IC 160-358742/5	5.0	0.467914	50.0	1826937.0	0.093583	Y
4	IC 160-358742/6	10.0	0.963083	50.0	1818587.0	0.096308	Y
5	IC 160-358742/7	20.0	1.912903	50.0	1866848.0	0.095645	Y
6	ICIS 160-358742/8	50.0	4.932599	50.0	1931588.0	0.098652	Y
7	IC 160-358742/9	100.0	10.117664	50.0	1975204.0	0.101177	Y
8	IC 160-358742/10	200.0	19.49097	50.0	1969866.0	0.097455	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

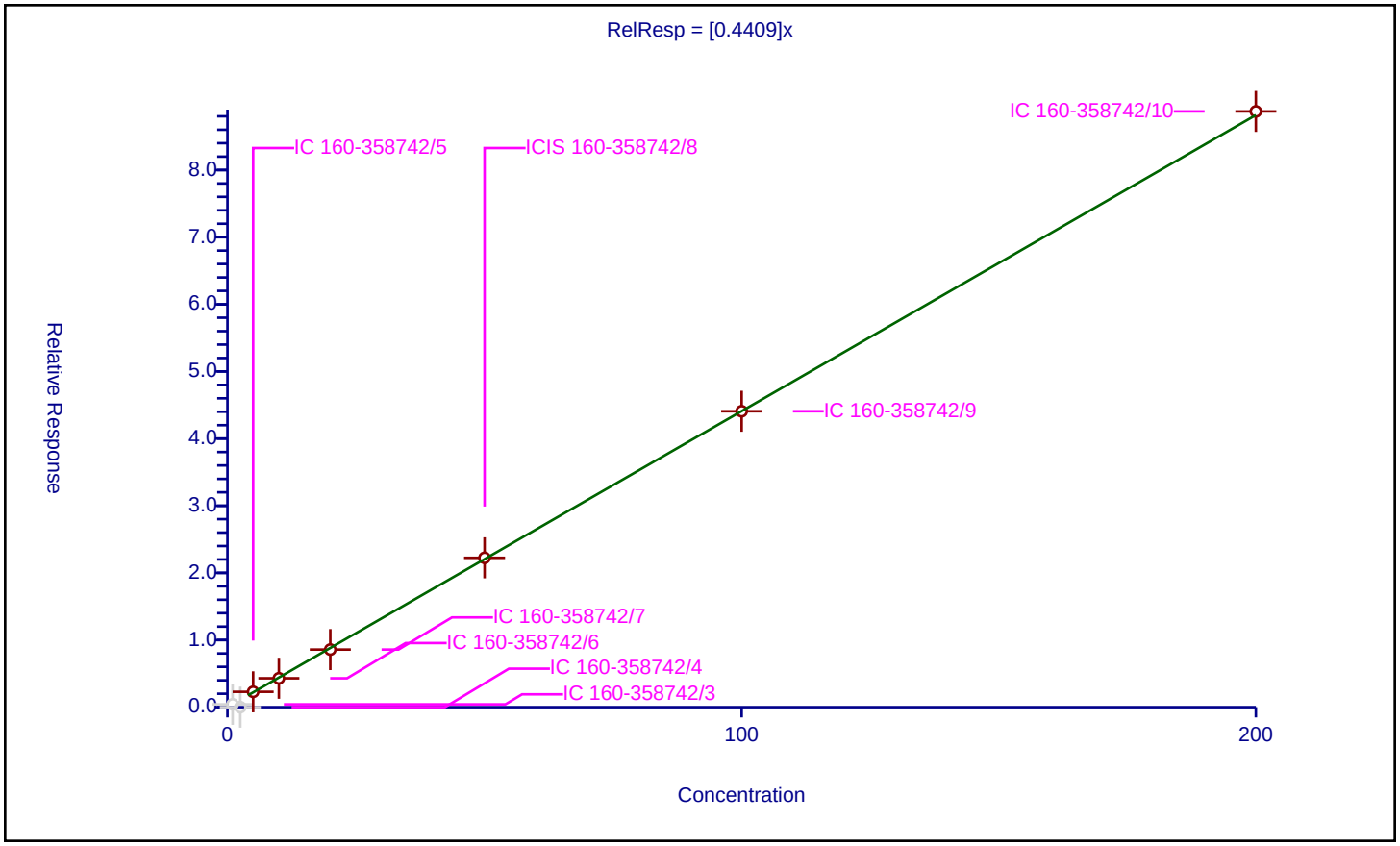
Curve Coefficients

Intercept:	0
Slope:	0.4409

Error Coefficients

Standard Error:	1800000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.421969	50.0	1816365.0	0.421969	N
2	IC 160-358742/4	2.5	0.0	50.0	1806431.0	0.0	N
3	IC 160-358742/5	5.0	2.286778	50.0	1826937.0	0.457356	Y
4	IC 160-358742/6	10.0	4.301169	50.0	1818587.0	0.430117	Y
5	IC 160-358742/7	20.0	8.577211	50.0	1866848.0	0.428861	Y
6	ICIS 160-358742/8	50.0	22.241674	50.0	1931588.0	0.444833	Y
7	IC 160-358742/9	100.0	44.07327	50.0	1975204.0	0.440733	Y
8	IC 160-358742/10	200.0	88.730046	50.0	1969866.0	0.44365	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

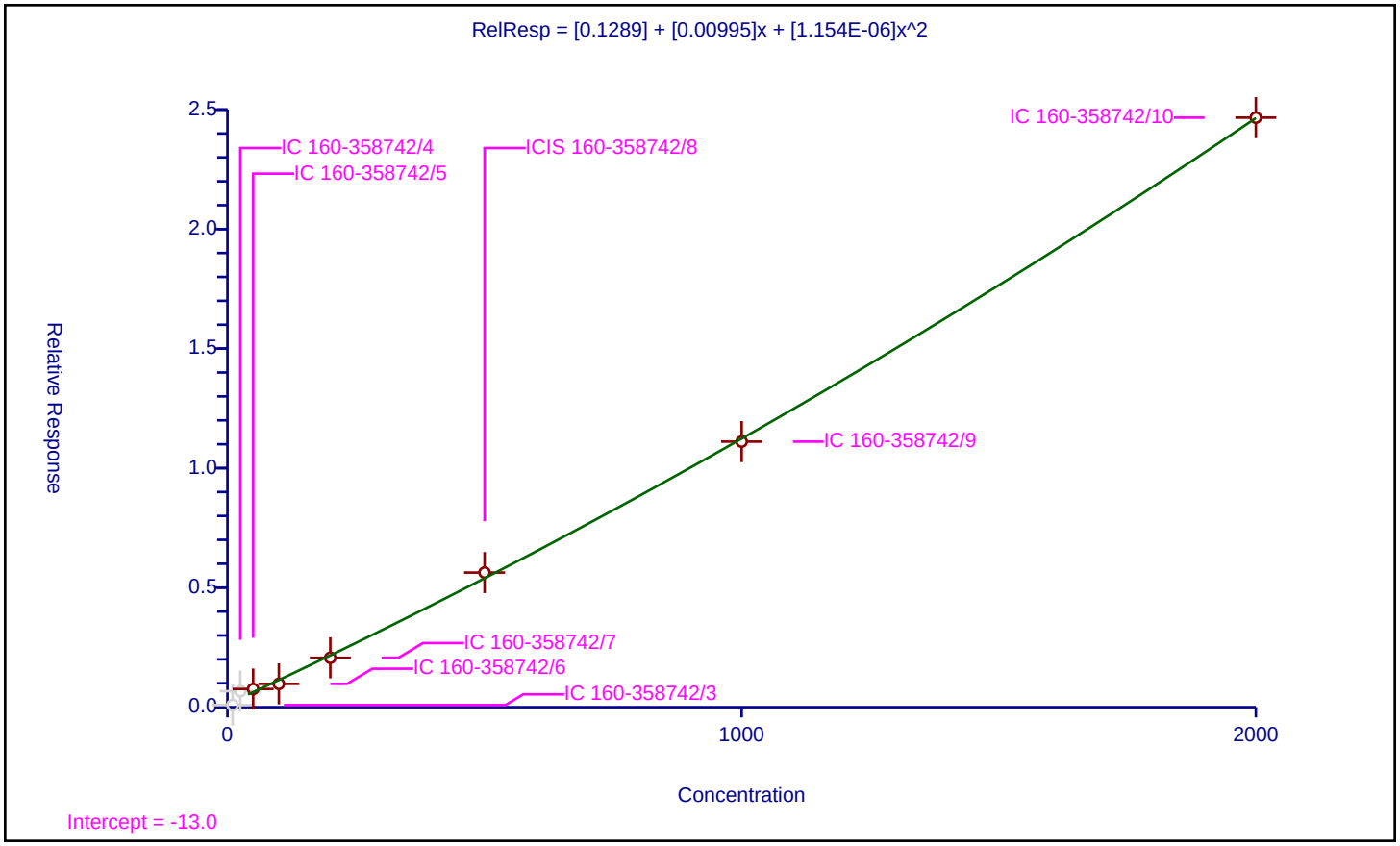
Curve Coefficients

Intercept:	0.1289
Slope:	0.00995
Second Order:	1.154E-06

Error Coefficients

Standard Error:	630000
Relative Standard Error:	17.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	10.0	0.088749	50.0	1816365.0	0.008875	N
2	IC 160-358742/4	25.0	0.669774	50.0	1806431.0	0.026791	N
3	IC 160-358742/5	50.0	0.759304	50.0	1826937.0	0.015186	Y
4	IC 160-358742/6	100.0	0.97419	50.0	1818587.0	0.009742	Y
5	IC 160-358742/7	200.0	2.06554	50.0	1866848.0	0.010328	Y
6	ICIS 160-358742/8	500.0	5.630626	50.0	1931588.0	0.011261	Y
7	IC 160-358742/9	1000.0	11.108599	50.0	1975204.0	0.011109	Y
8	IC 160-358742/10	2000.0	24.663556	50.0	1969866.0	0.012332	Y



Calibration / Acetonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

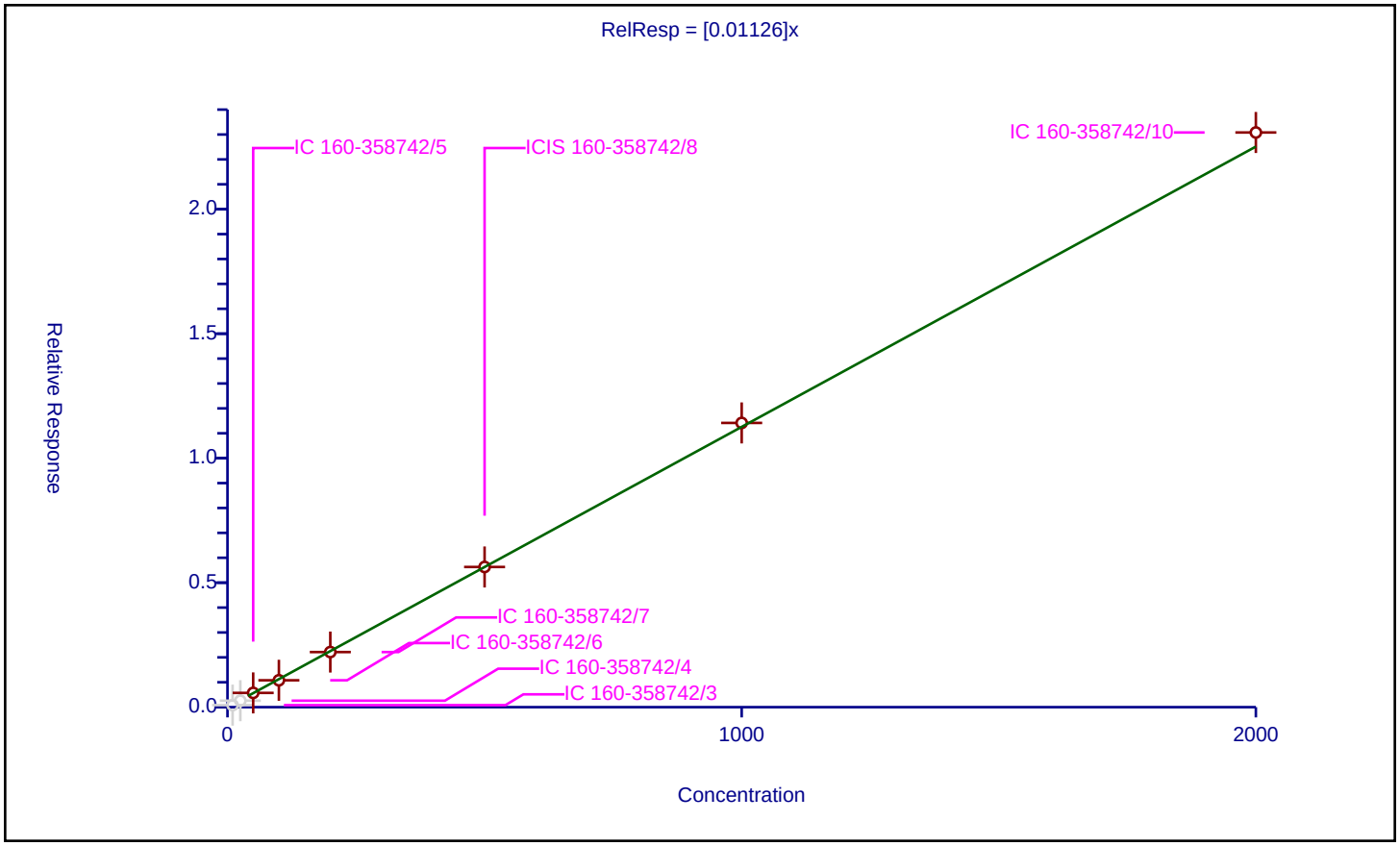
Curve Coefficients

Intercept:	0
Slope:	0.01126

Error Coefficients

Standard Error:	466000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	10.0	0.081647	50.0	1816365.0	0.008165	N
2	IC 160-358742/4	25.0	0.2596	50.0	1806431.0	0.010384	N
3	IC 160-358742/5	50.0	0.5732	50.0	1826937.0	0.011464	Y
4	IC 160-358742/6	100.0	1.079739	50.0	1818587.0	0.010797	Y
5	IC 160-358742/7	200.0	2.21274	50.0	1866848.0	0.011064	Y
6	ICIS 160-358742/8	500.0	5.630937	50.0	1931588.0	0.011262	Y
7	IC 160-358742/9	1000.0	11.416011	50.0	1975204.0	0.011416	Y
8	IC 160-358742/10	2000.0	23.081037	50.0	1969866.0	0.011541	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

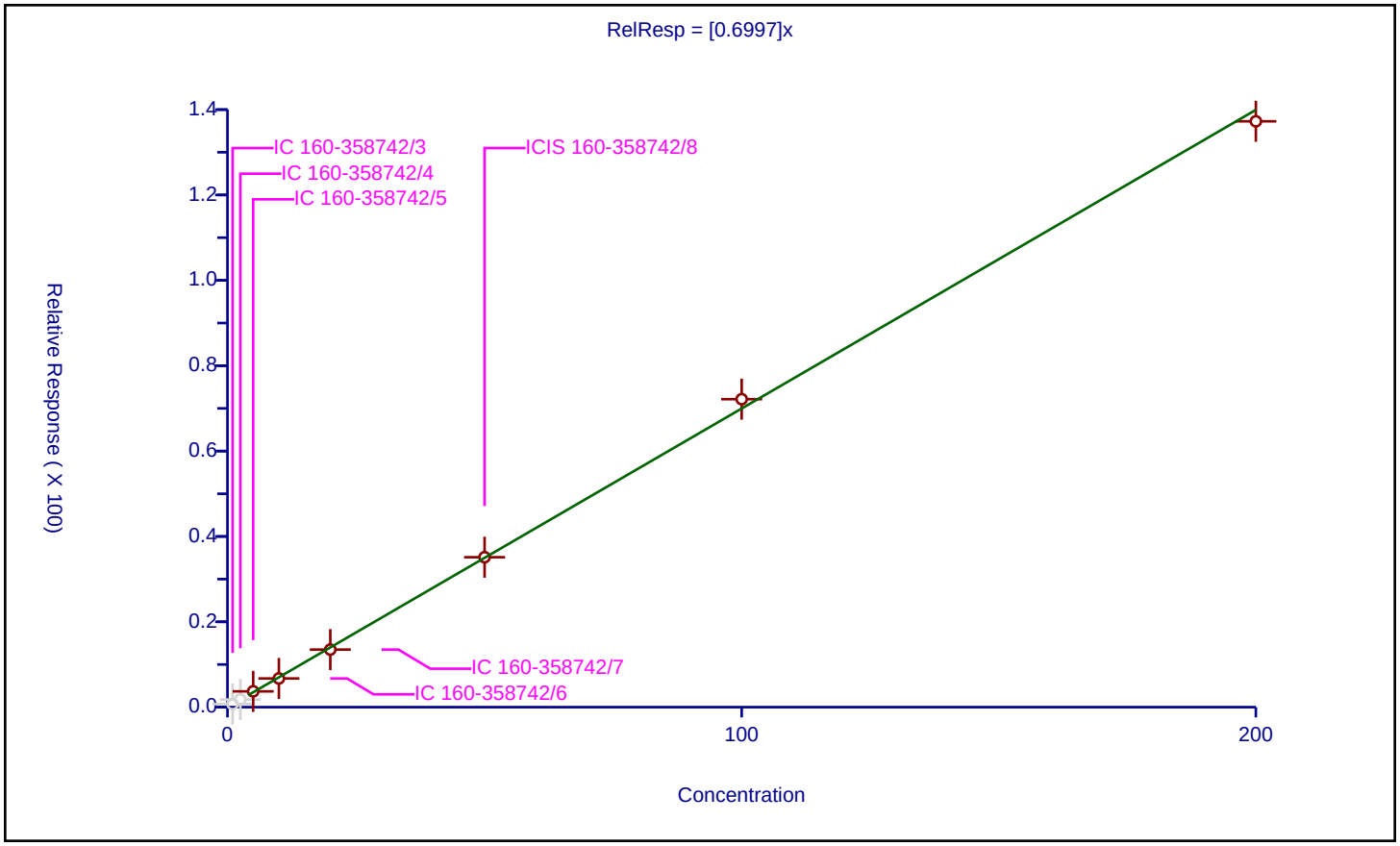
Curve Coefficients

Intercept:	0
Slope:	0.6997

Error Coefficients

Standard Error:	2810000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.717587	50.0	1816365.0	0.717587	N
2	IC 160-358742/4	2.5	1.794588	50.0	1806431.0	0.717835	N
3	IC 160-358742/5	5.0	3.705546	50.0	1826937.0	0.741109	Y
4	IC 160-358742/6	10.0	6.721895	50.0	1818587.0	0.672189	Y
5	IC 160-358742/7	20.0	13.489716	50.0	1866848.0	0.674486	Y
6	ICIS 160-358742/8	50.0	35.128091	50.0	1931588.0	0.702562	Y
7	IC 160-358742/9	100.0	72.15356	50.0	1975204.0	0.721536	Y
8	IC 160-358742/10	200.0	137.260834	50.0	1969866.0	0.686304	Y



Calibration / 2-Chloro-1,3-butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

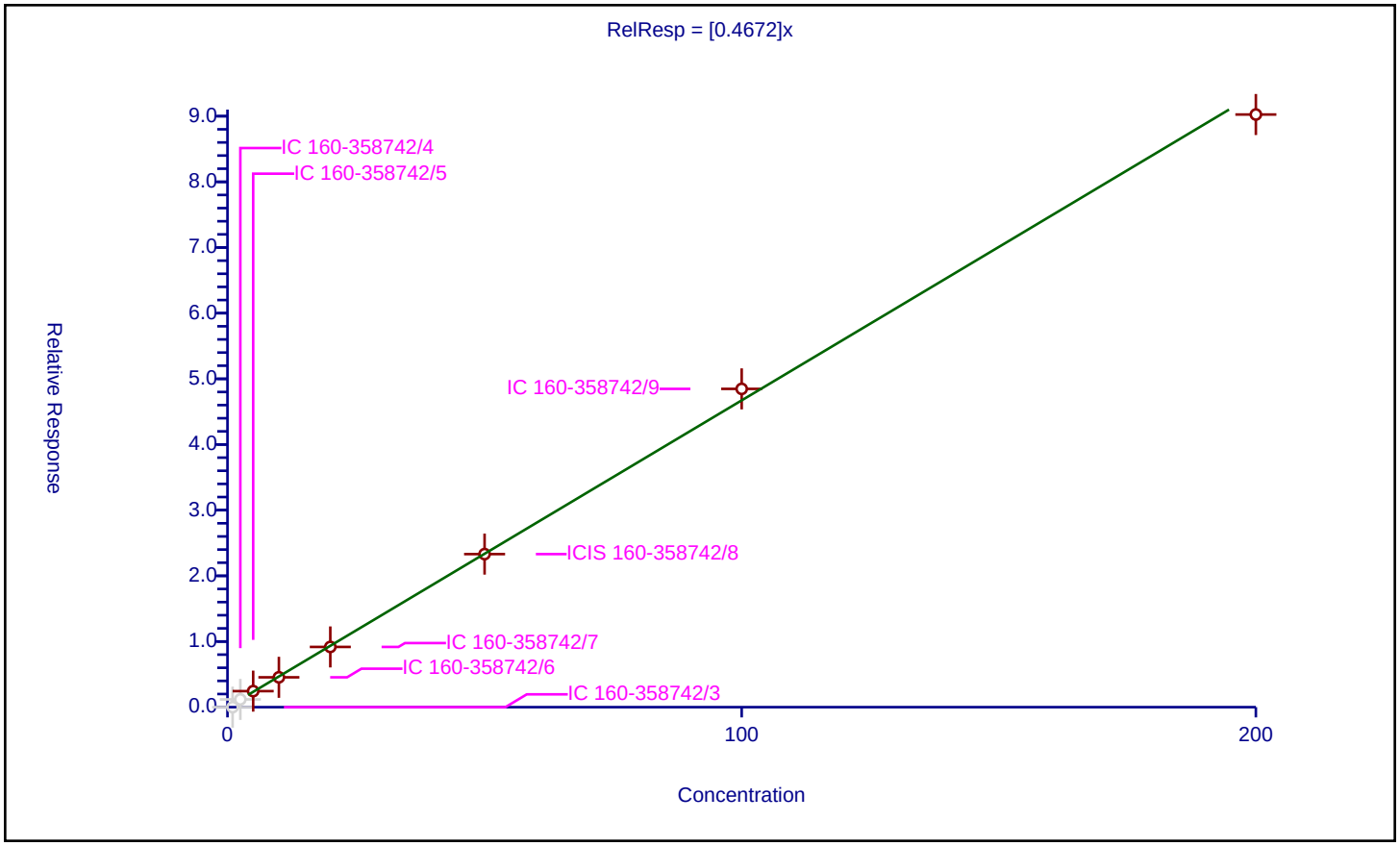
Curve Coefficients

Intercept:	0
Slope:	0.4672

Error Coefficients

Standard Error:	1860000
Relative Standard Error:	3.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	2.5	1.181999	50.0	1806431.0	0.4728	N
3	IC 160-358742/5	5.0	2.440095	50.0	1826937.0	0.488019	Y
4	IC 160-358742/6	10.0	4.544517	50.0	1818587.0	0.454452	Y
5	IC 160-358742/7	20.0	9.170966	50.0	1866848.0	0.458548	Y
6	ICIS 160-358742/8	50.0	23.311182	50.0	1931588.0	0.466224	Y
7	IC 160-358742/9	100.0	48.471449	50.0	1975204.0	0.484714	Y
8	IC 160-358742/10	200.0	90.251596	50.0	1969866.0	0.451258	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

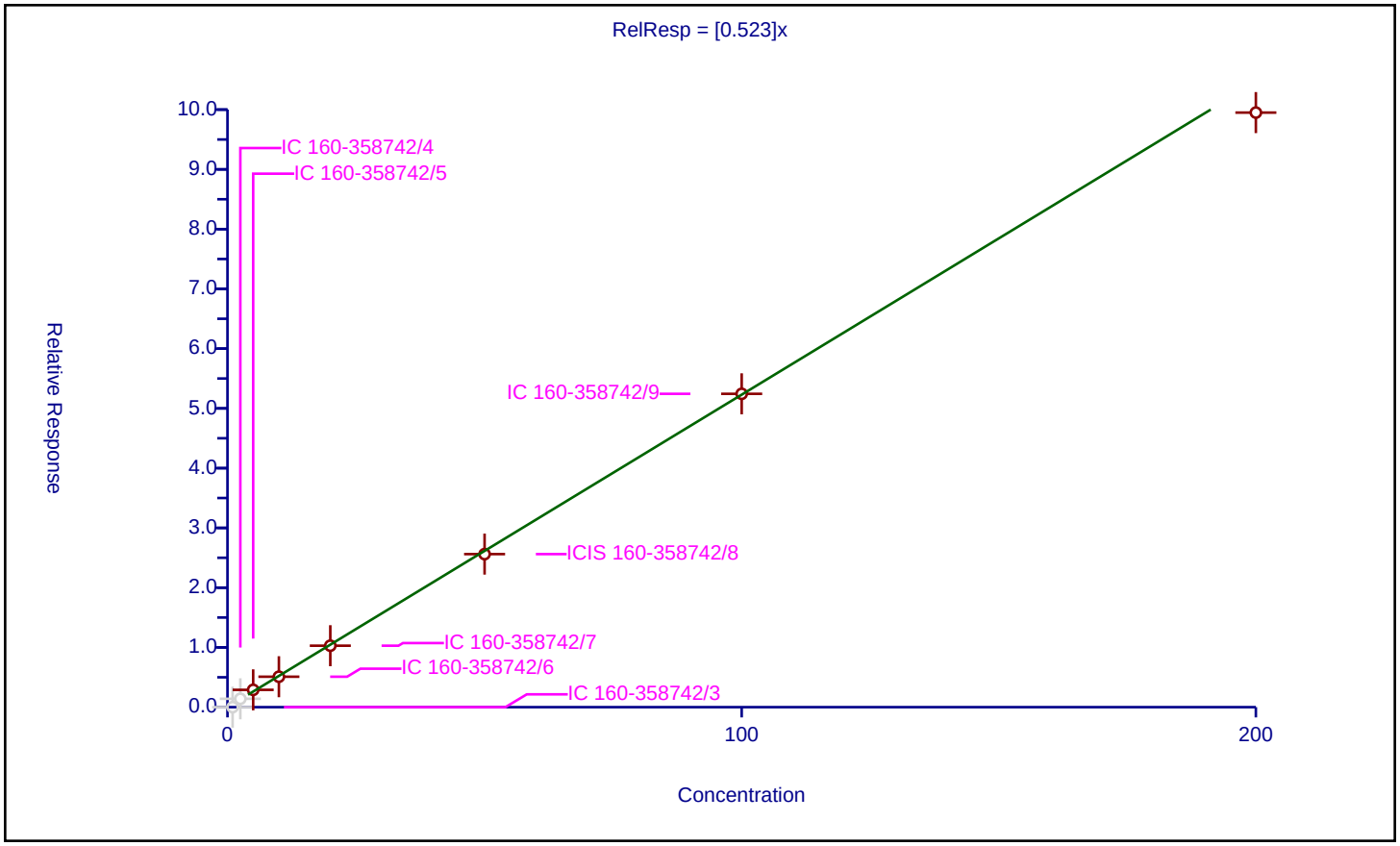
Curve Coefficients

Intercept:	0
Slope:	0.523

Error Coefficients

Standard Error:	2040000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	2.5	1.398891	50.0	1806431.0	0.559556	N
3	IC 160-358742/5	5.0	2.898841	50.0	1826937.0	0.579768	Y
4	IC 160-358742/6	10.0	5.095824	50.0	1818587.0	0.509582	Y
5	IC 160-358742/7	20.0	10.28659	50.0	1866848.0	0.51433	Y
6	ICIS 160-358742/8	50.0	25.612398	50.0	1931588.0	0.512248	Y
7	IC 160-358742/9	100.0	52.43871	50.0	1975204.0	0.524387	Y
8	IC 160-358742/10	200.0	99.502073	50.0	1969866.0	0.49751	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

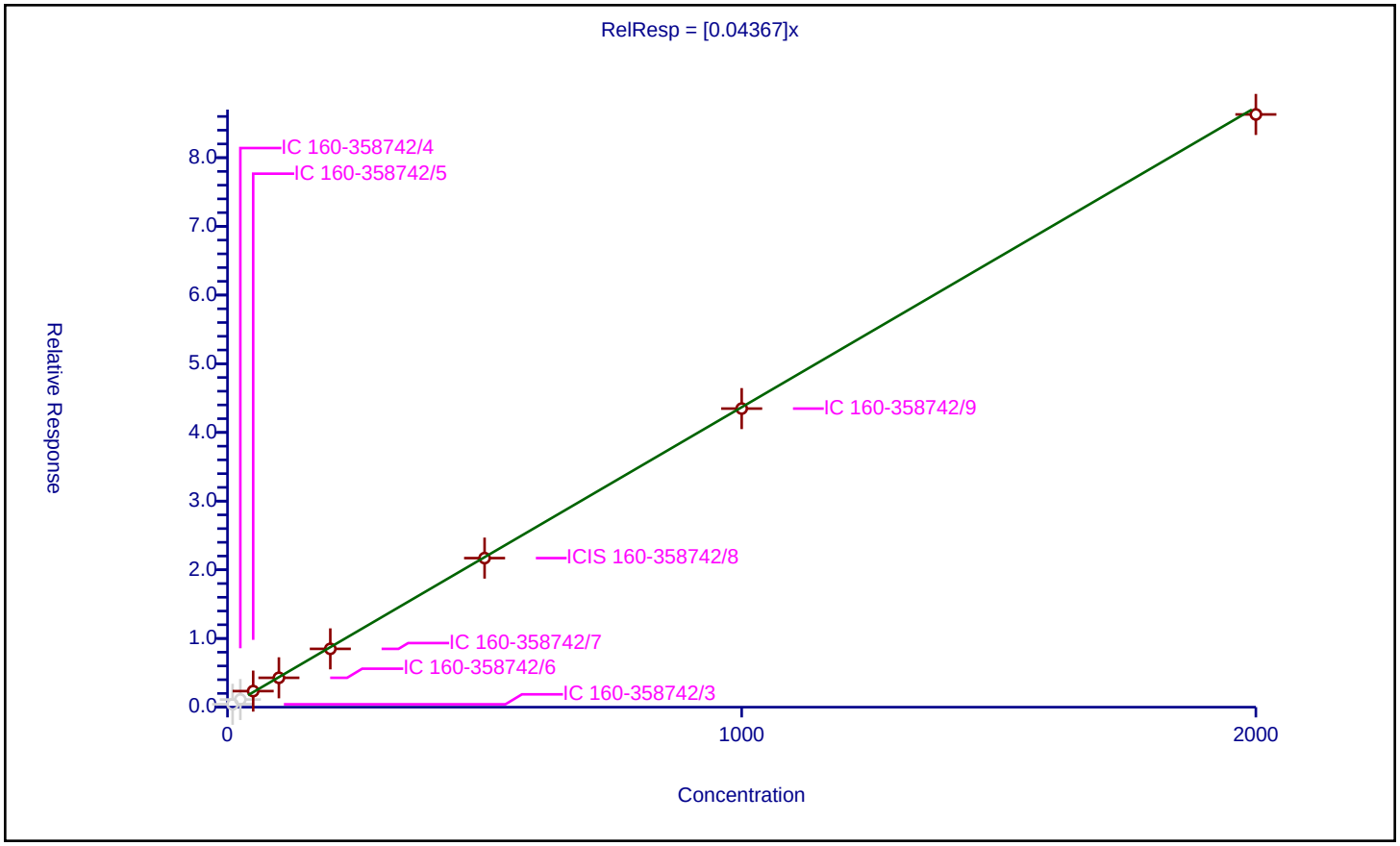
Curve Coefficients

Intercept:	0
Slope:	0.04367

Error Coefficients

Standard Error:	1750000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	10.0	0.420868	50.0	1816365.0	0.042087	N
2	IC 160-358742/4	25.0	1.113106	50.0	1806431.0	0.044524	N
3	IC 160-358742/5	50.0	2.33938	50.0	1826937.0	0.046788	Y
4	IC 160-358742/6	100.0	4.27604	50.0	1818587.0	0.04276	Y
5	IC 160-358742/7	200.0	8.490568	50.0	1866848.0	0.042453	Y
6	ICIS 160-358742/8	500.0	21.701341	50.0	1931588.0	0.043403	Y
7	IC 160-358742/9	1000.0	43.47194	50.0	1975204.0	0.043472	Y
8	IC 160-358742/10	2000.0	86.298256	50.0	1969866.0	0.043149	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

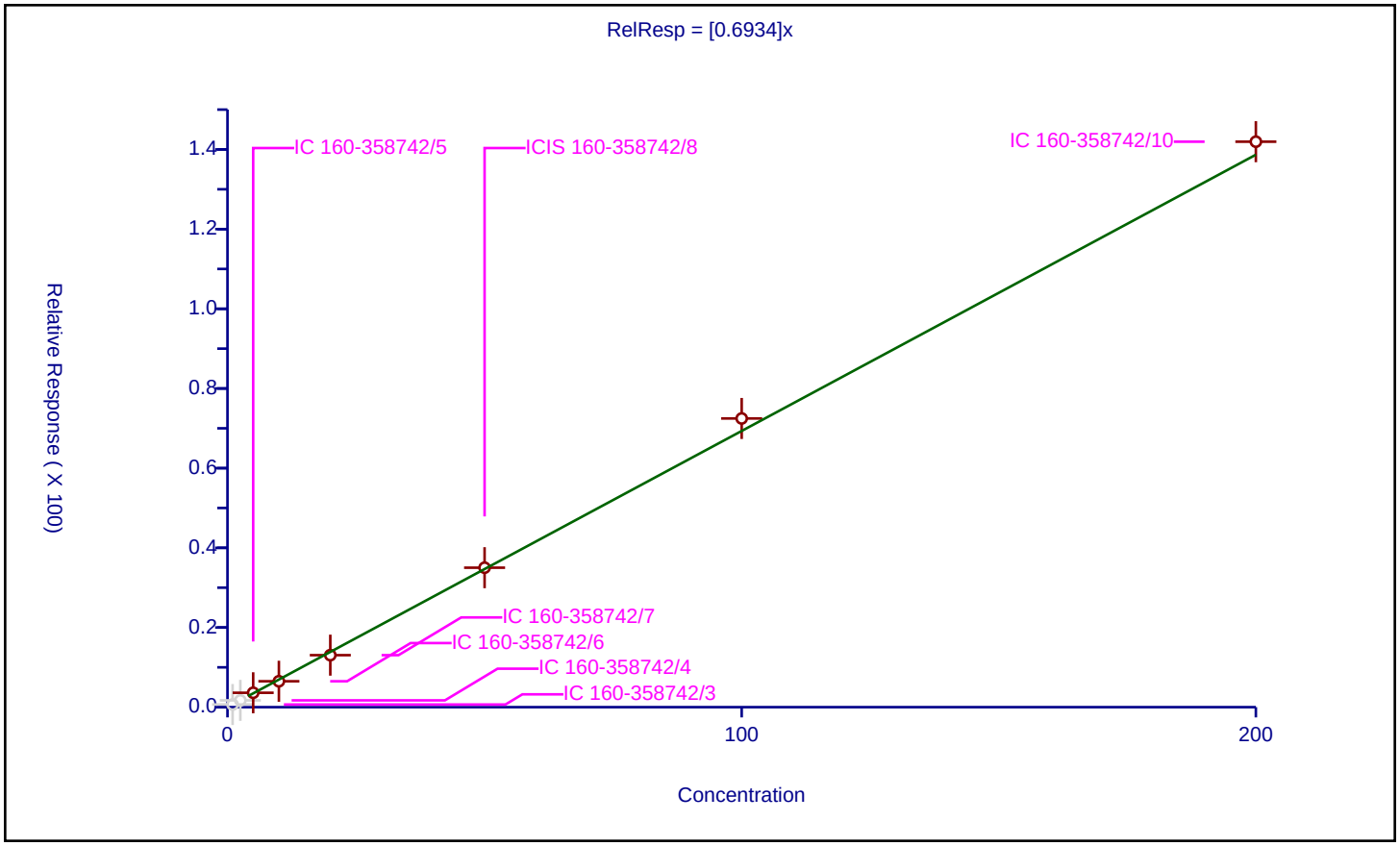
Curve Coefficients

Intercept:	0
Slope:	0.6934

Error Coefficients

Standard Error:	2880000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.66344	50.0	1816365.0	0.66344	N
2	IC 160-358742/4	2.5	1.709586	50.0	1806431.0	0.683835	N
3	IC 160-358742/5	5.0	3.612549	50.0	1826937.0	0.72251	Y
4	IC 160-358742/6	10.0	6.502109	50.0	1818587.0	0.650211	Y
5	IC 160-358742/7	20.0	13.055696	50.0	1866848.0	0.652785	Y
6	ICIS 160-358742/8	50.0	35.013031	50.0	1931588.0	0.700261	Y
7	IC 160-358742/9	100.0	72.472109	50.0	1975204.0	0.724721	Y
8	IC 160-358742/10	200.0	141.947904	50.0	1969866.0	0.70974	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

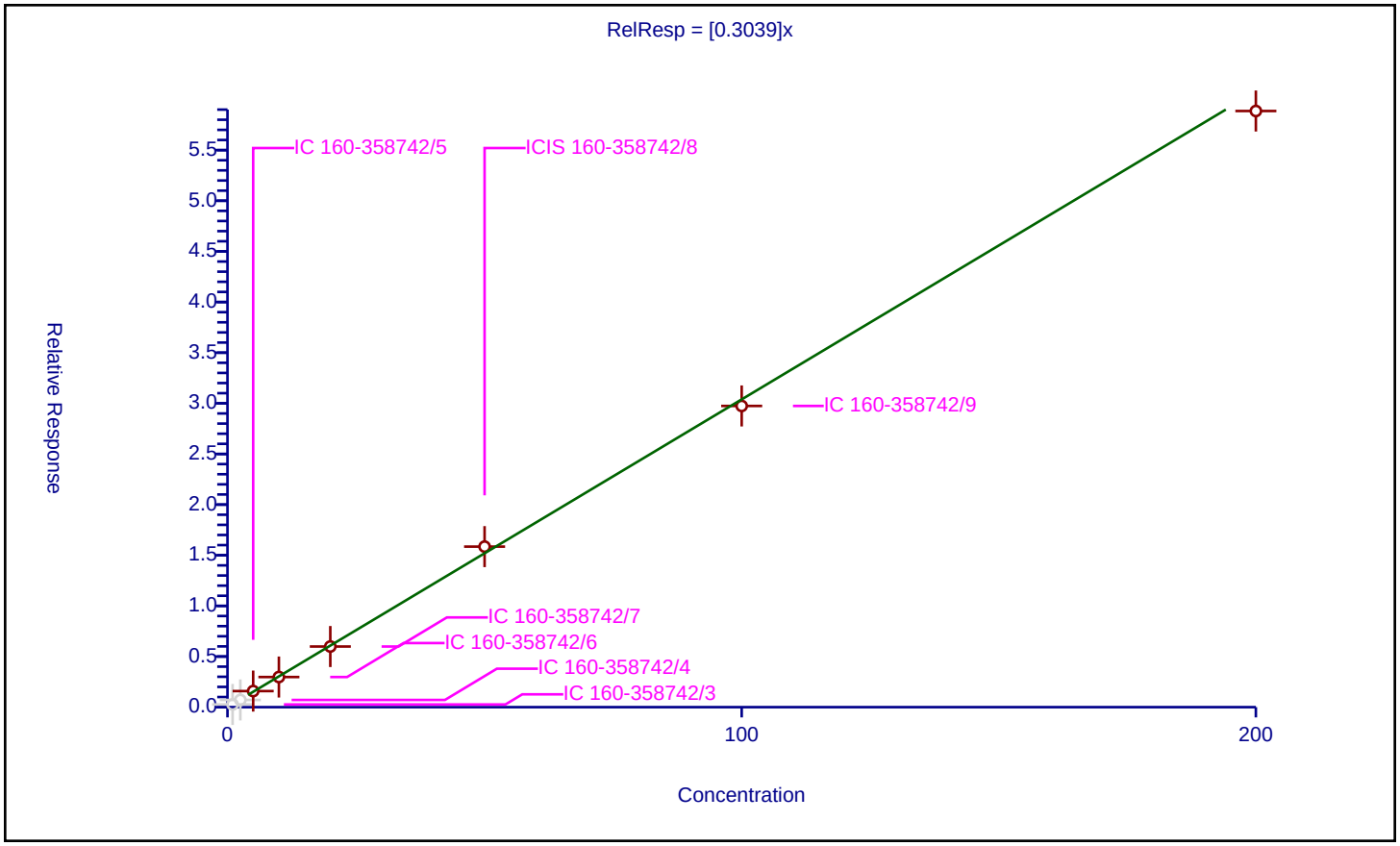
Curve Coefficients

Intercept:	0
Slope:	0.3039

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.267815	50.0	1816365.0	0.267815	N
2	IC 160-358742/4	2.5	0.713534	50.0	1806431.0	0.285414	N
3	IC 160-358742/5	5.0	1.587712	50.0	1826937.0	0.317542	Y
4	IC 160-358742/6	10.0	2.975909	50.0	1818587.0	0.297591	Y
5	IC 160-358742/7	20.0	5.988704	50.0	1866848.0	0.299435	Y
6	ICIS 160-358742/8	50.0	15.852552	50.0	1931588.0	0.317051	Y
7	IC 160-358742/9	100.0	29.741282	50.0	1975204.0	0.297413	Y
8	IC 160-358742/10	200.0	58.862329	50.0	1969866.0	0.294312	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

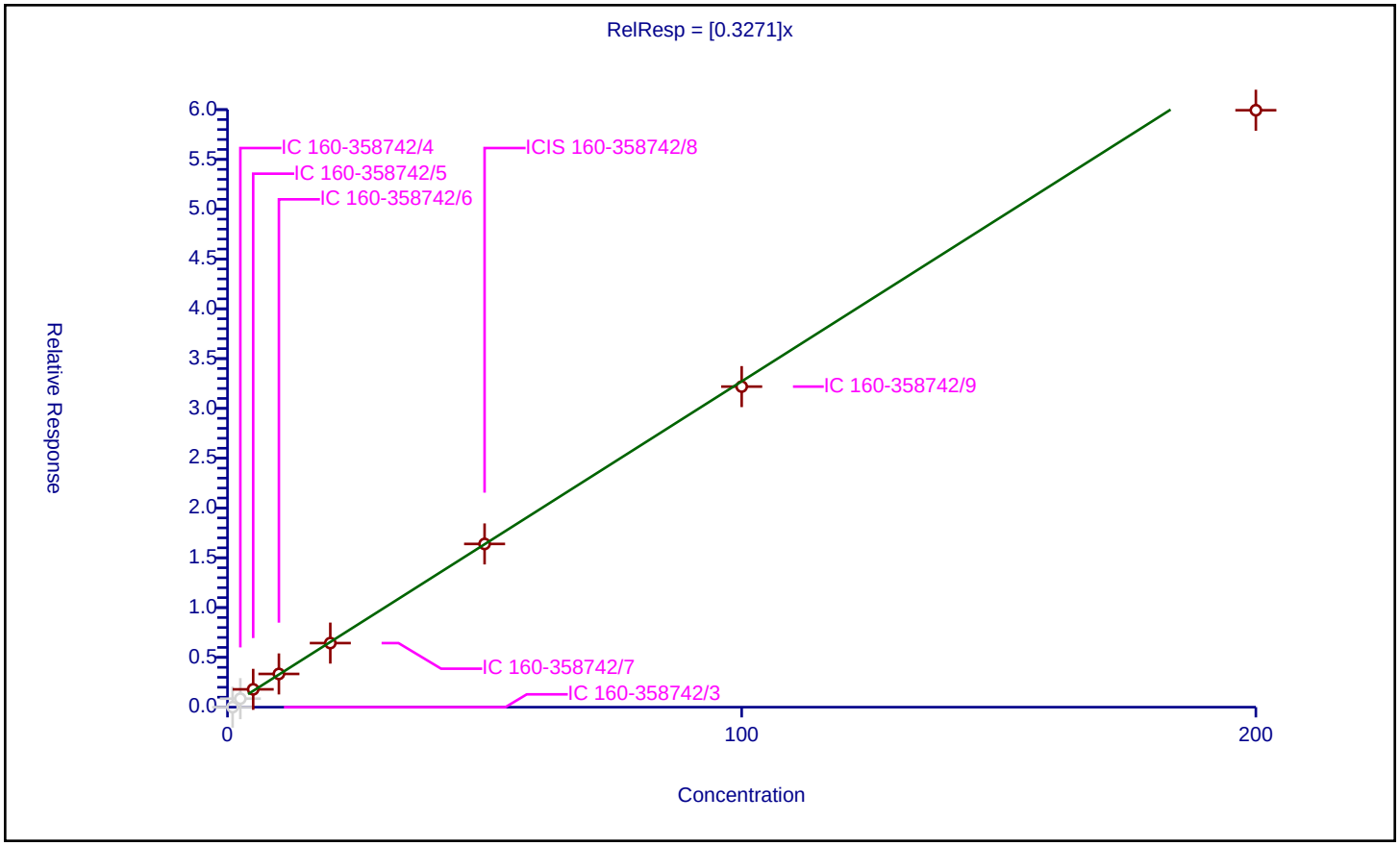
Curve Coefficients

Intercept:	0
Slope:	0.3271

Error Coefficients

Standard Error:	1240000
Relative Standard Error:	5.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	2.5	0.852814	50.0	1806431.0	0.341126	N
3	IC 160-358742/5	5.0	1.789334	50.0	1826937.0	0.357867	Y
4	IC 160-358742/6	10.0	3.338031	50.0	1818587.0	0.333803	Y
5	IC 160-358742/7	20.0	6.434027	50.0	1866848.0	0.321701	Y
6	ICIS 160-358742/8	50.0	16.390555	50.0	1931588.0	0.327811	Y
7	IC 160-358742/9	100.0	32.188751	50.0	1975204.0	0.321888	Y
8	IC 160-358742/10	200.0	59.937402	50.0	1969866.0	0.299687	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

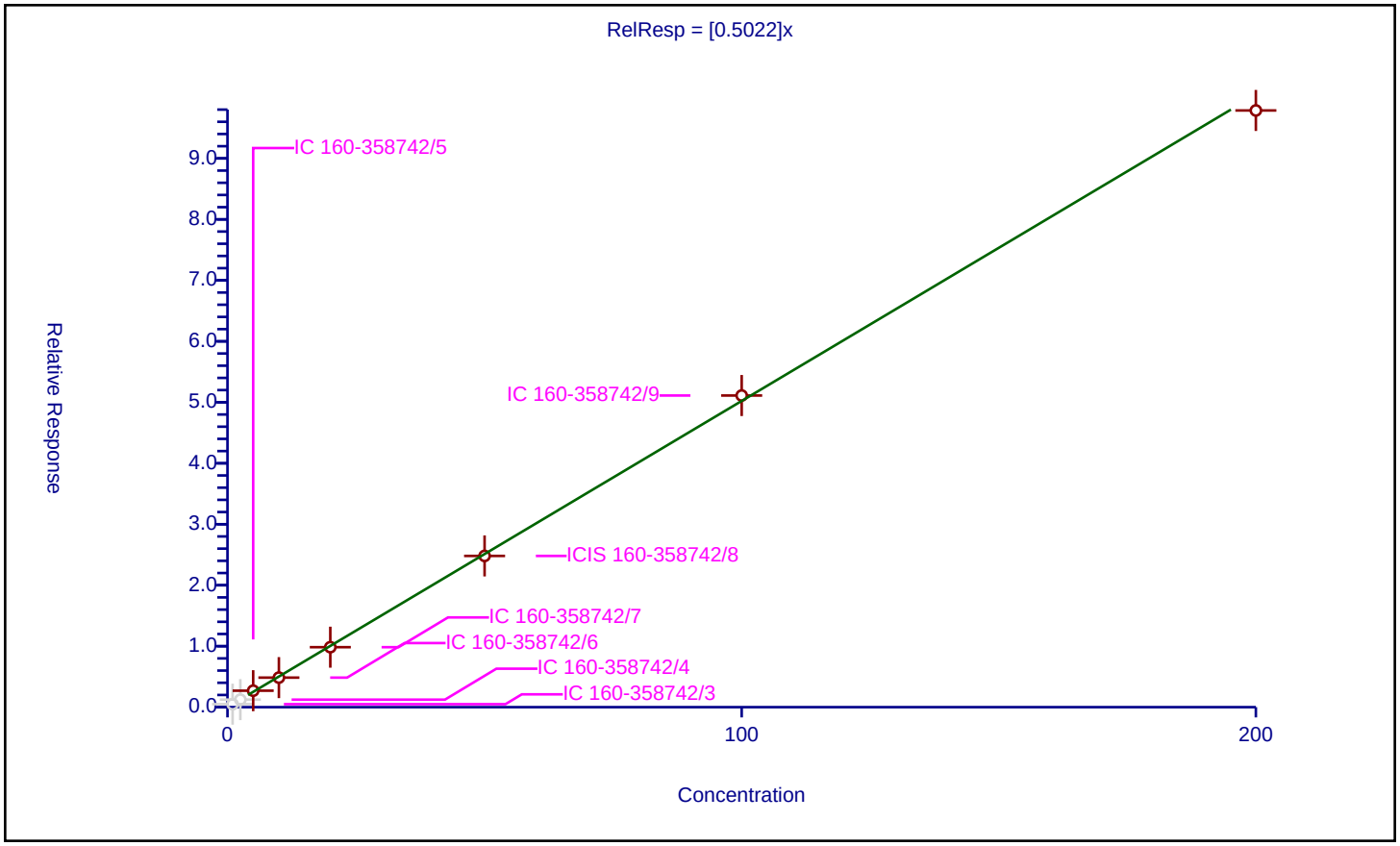
Curve Coefficients

Intercept:	0
Slope:	0.5022

Error Coefficients

Standard Error:	2000000
Relative Standard Error:	4.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.489301	50.0	1816365.0	0.489301	N
2	IC 160-358742/4	2.5	1.233233	50.0	1806431.0	0.493293	N
3	IC 160-358742/5	5.0	2.701544	50.0	1826937.0	0.540309	Y
4	IC 160-358742/6	10.0	4.846372	50.0	1818587.0	0.484637	Y
5	IC 160-358742/7	20.0	9.835161	50.0	1866848.0	0.491758	Y
6	ICIS 160-358742/8	50.0	24.80428	50.0	1931588.0	0.496086	Y
7	IC 160-358742/9	100.0	51.110138	50.0	1975204.0	0.511101	Y
8	IC 160-358742/10	200.0	97.860438	50.0	1969866.0	0.489302	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

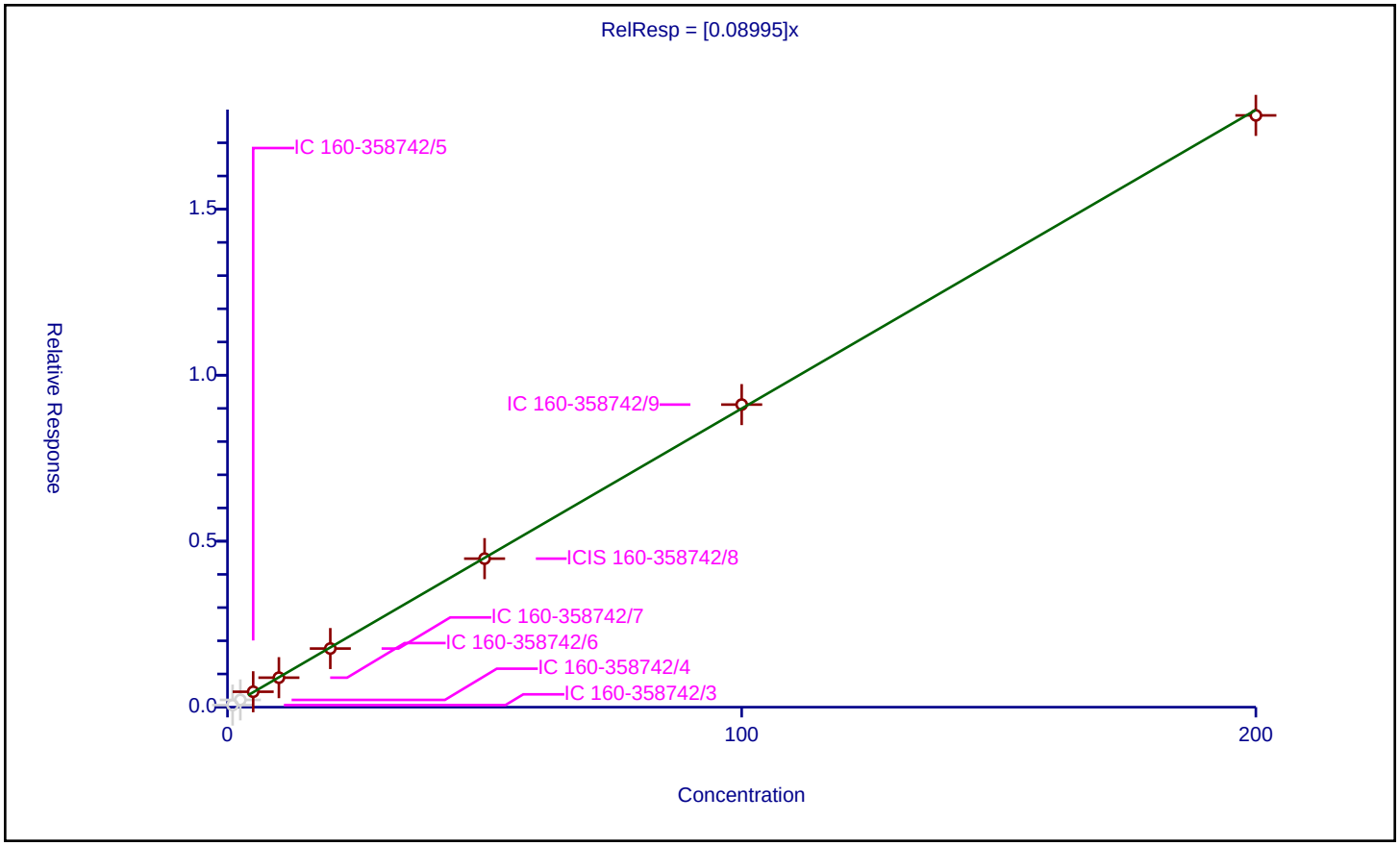
Curve Coefficients

Intercept:	0
Slope:	0.08995

Error Coefficients

Standard Error:	363000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.063258	50.0	1816365.0	0.063258	N
2	IC 160-358742/4	2.5	0.219161	50.0	1806431.0	0.087665	N
3	IC 160-358742/5	5.0	0.464165	50.0	1826937.0	0.092833	Y
4	IC 160-358742/6	10.0	0.888437	50.0	1818587.0	0.088844	Y
5	IC 160-358742/7	20.0	1.765945	50.0	1866848.0	0.088297	Y
6	ICIS 160-358742/8	50.0	4.473884	50.0	1931588.0	0.089478	Y
7	IC 160-358742/9	100.0	9.114653	50.0	1975204.0	0.091147	Y
8	IC 160-358742/10	200.0	17.825883	50.0	1969866.0	0.089129	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

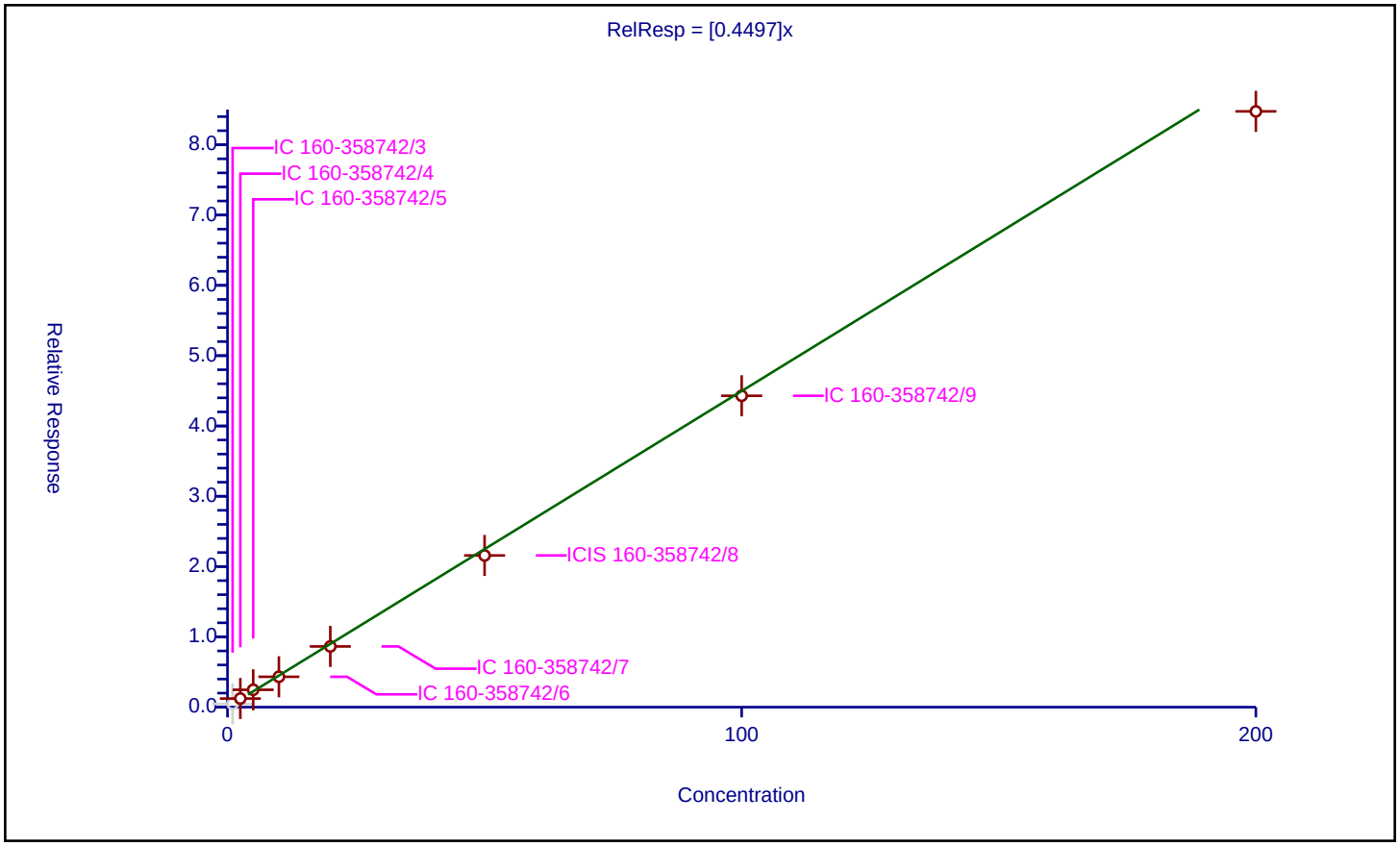
Curve Coefficients

Intercept:	0
Slope:	0.4497

Error Coefficients

Standard Error:	1580000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.460755	50.0	1816365.0	0.460755	N
2	IC 160-358742/4	2.5	1.228555	50.0	1806431.0	0.491422	Y
3	IC 160-358742/5	5.0	2.469434	50.0	1826937.0	0.493887	Y
4	IC 160-358742/6	10.0	4.323686	50.0	1818587.0	0.432369	Y
5	IC 160-358742/7	20.0	8.638625	50.0	1866848.0	0.431931	Y
6	ICIS 160-358742/8	50.0	21.578152	50.0	1931588.0	0.431563	Y
7	IC 160-358742/9	100.0	44.291906	50.0	1975204.0	0.442919	Y
8	IC 160-358742/10	200.0	84.75178	50.0	1969866.0	0.423759	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

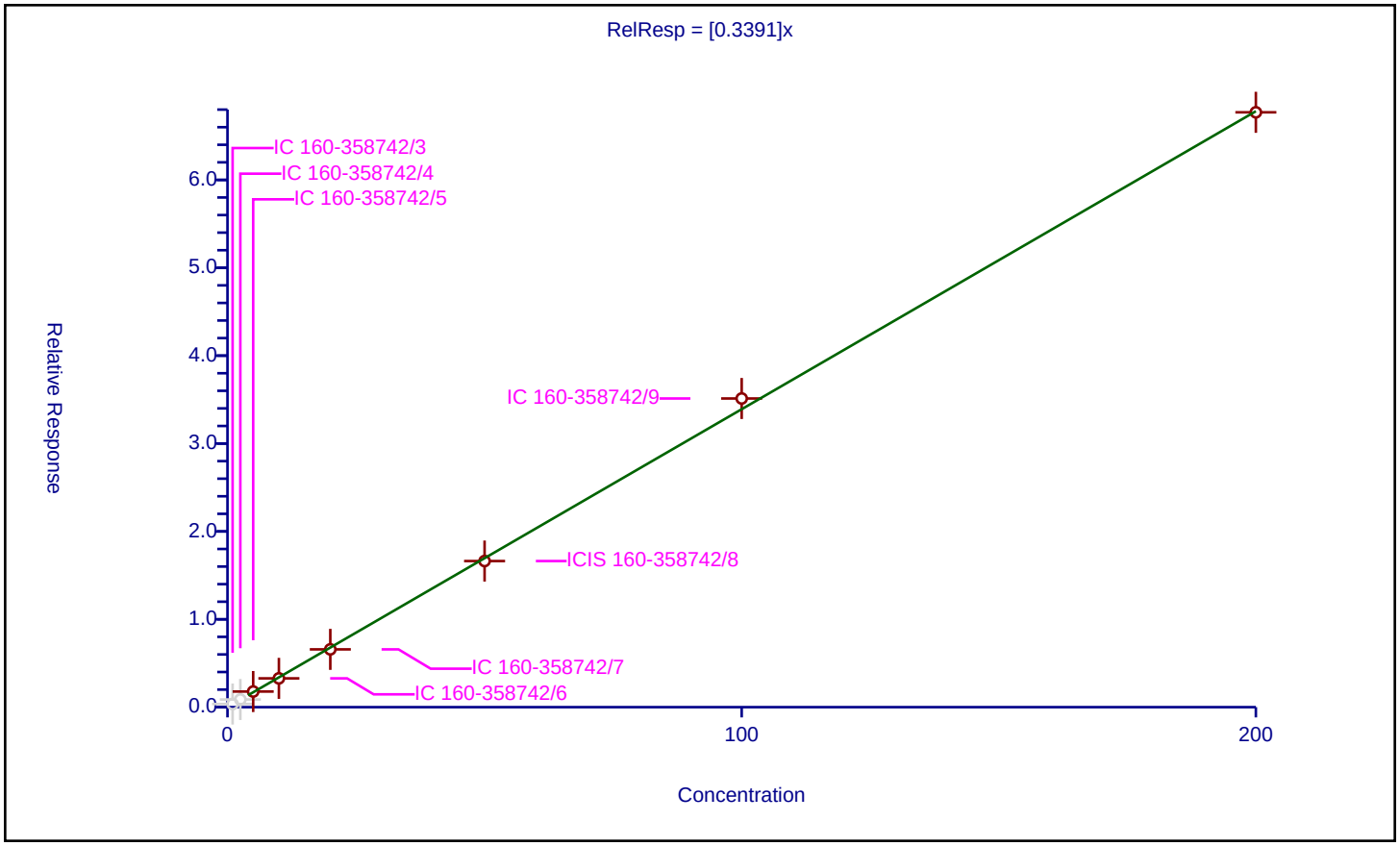
Curve Coefficients

Intercept:	0
Slope:	0.3391

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.356123	50.0	1816365.0	0.356123	N
2	IC 160-358742/4	2.5	0.872909	50.0	1806431.0	0.349164	N
3	IC 160-358742/5	5.0	1.777812	50.0	1826937.0	0.355562	Y
4	IC 160-358742/6	10.0	3.277132	50.0	1818587.0	0.327713	Y
5	IC 160-358742/7	20.0	6.576995	50.0	1866848.0	0.32885	Y
6	ICIS 160-358742/8	50.0	16.628443	50.0	1931588.0	0.332569	Y
7	IC 160-358742/9	100.0	35.126296	50.0	1975204.0	0.351263	Y
8	IC 160-358742/10	200.0	67.693082	50.0	1969866.0	0.338465	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

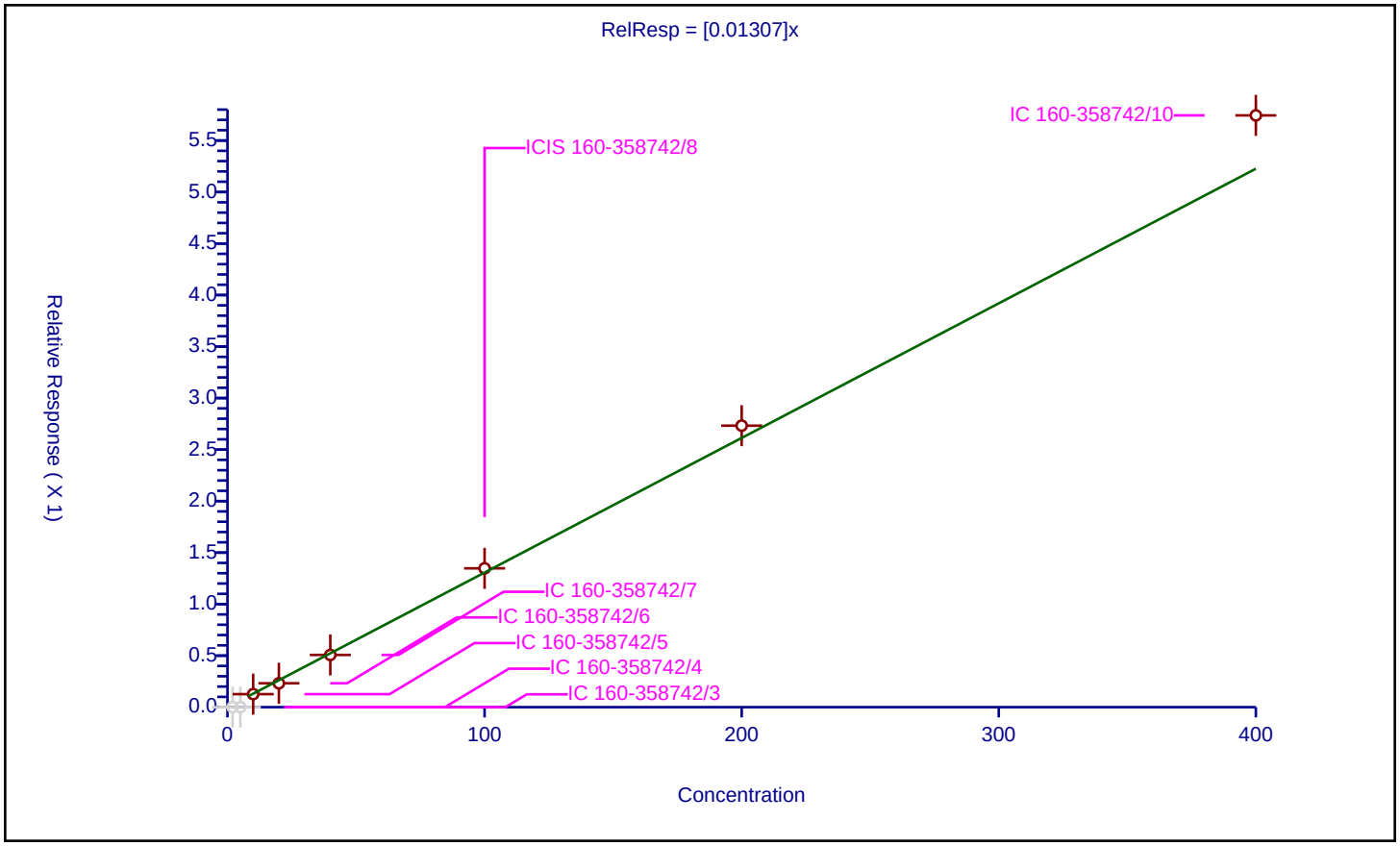
Curve Coefficients

Intercept:	0
Slope:	0.01307

Error Coefficients

Standard Error:	115000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	2.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	5.0	0.0	50.0	1806431.0	0.0	N
3	IC 160-358742/5	10.0	0.126359	50.0	1826937.0	0.012636	Y
4	IC 160-358742/6	20.0	0.231773	50.0	1818587.0	0.011589	Y
5	IC 160-358742/7	40.0	0.506951	50.0	1866848.0	0.012674	Y
6	ICIS 160-358742/8	100.0	1.347492	50.0	1931588.0	0.013475	Y
7	IC 160-358742/9	200.0	2.732376	50.0	1975204.0	0.013662	Y
8	IC 160-358742/10	400.0	5.743995	50.0	1969866.0	0.01436	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

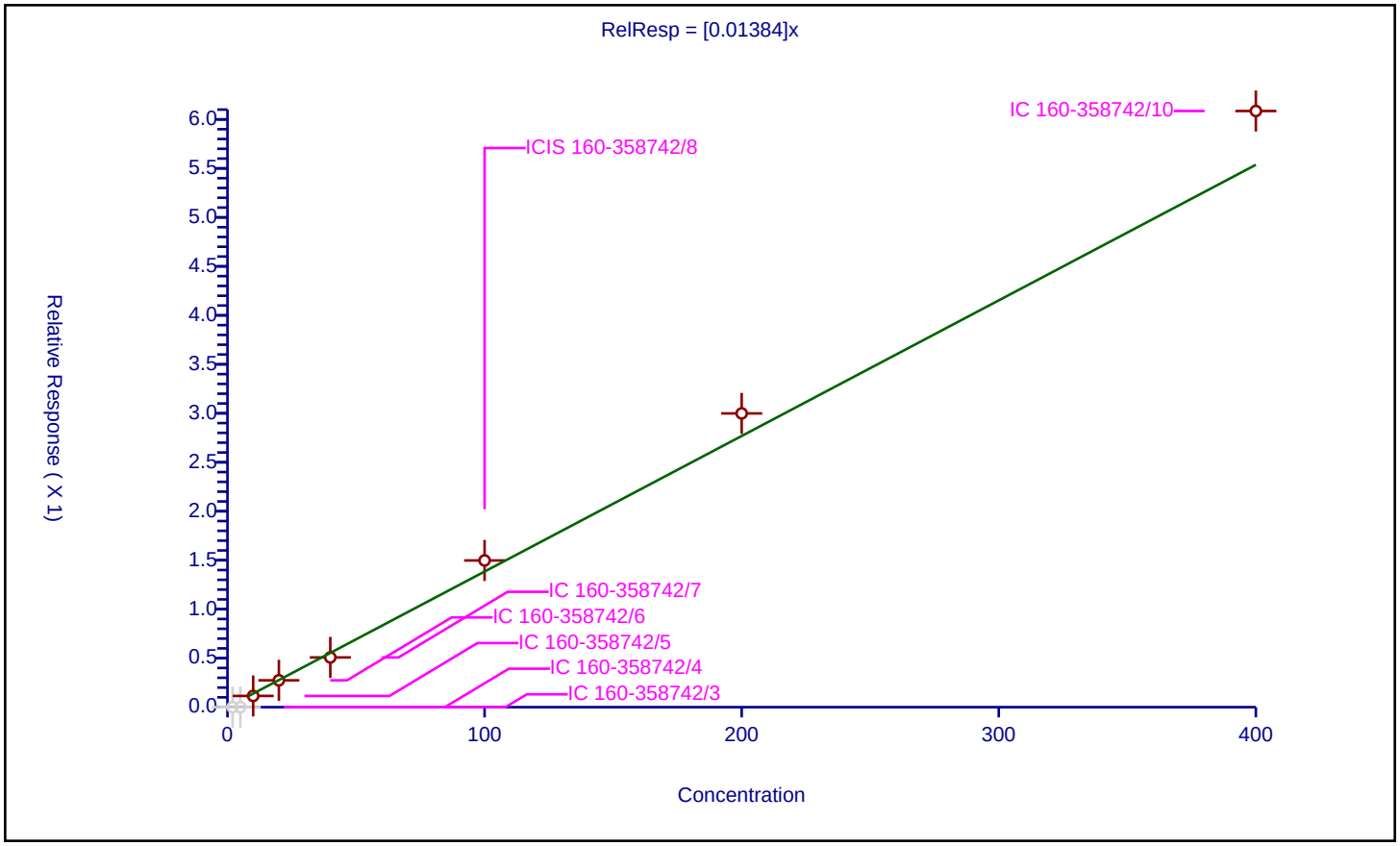
Curve Coefficients

Intercept:	0
Slope:	0.01384

Error Coefficients

Standard Error:	123000
Relative Standard Error:	10.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	2.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	5.0	0.0	50.0	1806431.0	0.0	N
3	IC 160-358742/5	10.0	0.114673	50.0	1826937.0	0.011467	Y
4	IC 160-358742/6	20.0	0.274251	50.0	1818587.0	0.013713	Y
5	IC 160-358742/7	40.0	0.507594	50.0	1866848.0	0.01269	Y
6	ICIS 160-358742/8	100.0	1.497602	50.0	1931588.0	0.014976	Y
7	IC 160-358742/9	200.0	2.998602	50.0	1975204.0	0.014993	Y
8	IC 160-358742/10	400.0	6.085769	50.0	1969866.0	0.015214	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

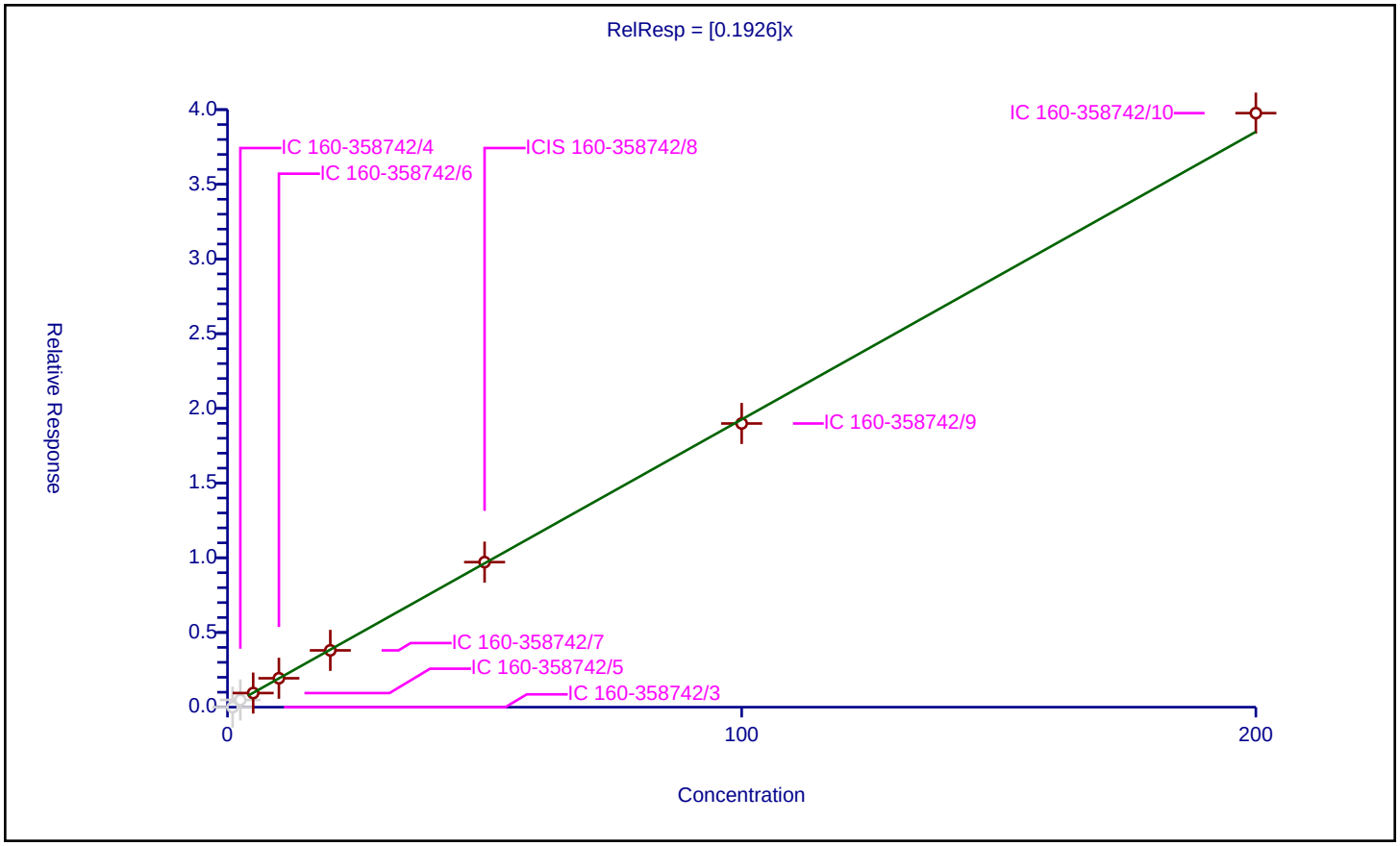
Curve Coefficients

Intercept:	0
Slope:	0.1926

Error Coefficients

Standard Error:	798000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	2.5	0.482747	50.0	1806431.0	0.193099	N
3	IC 160-358742/5	5.0	0.944696	50.0	1826937.0	0.188939	Y
4	IC 160-358742/6	10.0	1.935706	50.0	1818587.0	0.193571	Y
5	IC 160-358742/7	20.0	3.801943	50.0	1866848.0	0.190097	Y
6	ICIS 160-358742/8	50.0	9.708463	50.0	1931588.0	0.194169	Y
7	IC 160-358742/9	100.0	18.98895	50.0	1975204.0	0.18989	Y
8	IC 160-358742/10	200.0	39.764761	50.0	1969866.0	0.198824	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

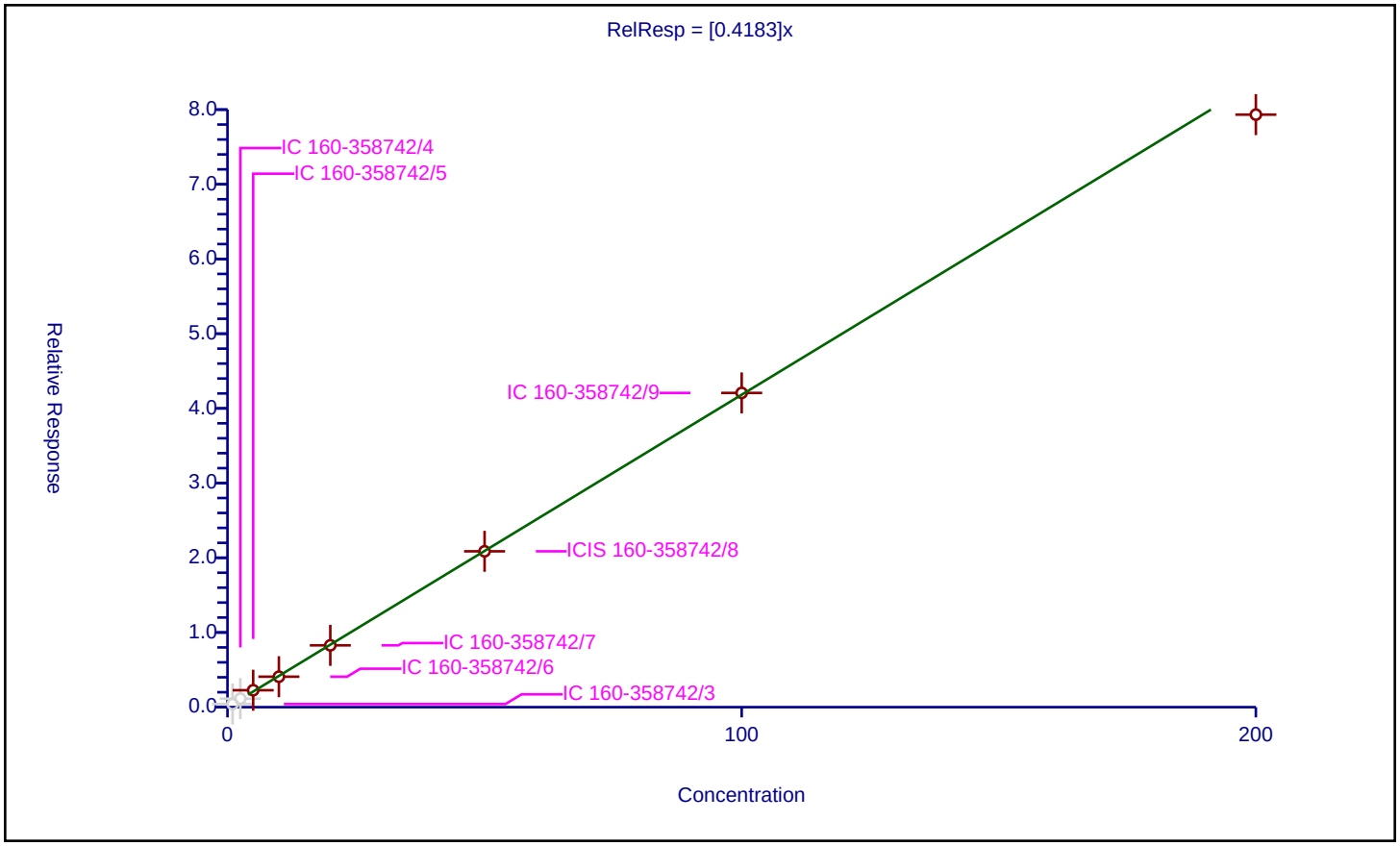
Curve Coefficients

Intercept:	0
Slope:	0.4183

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.415831	50.0	1816365.0	0.415831	N
2	IC 160-358742/4	2.5	1.13727	50.0	1806431.0	0.454908	N
3	IC 160-358742/5	5.0	2.265486	50.0	1826937.0	0.453097	Y
4	IC 160-358742/6	10.0	4.080531	50.0	1818587.0	0.408053	Y
5	IC 160-358742/7	20.0	8.277776	50.0	1866848.0	0.413889	Y
6	ICIS 160-358742/8	50.0	20.865526	50.0	1931588.0	0.417311	Y
7	IC 160-358742/9	100.0	42.070439	50.0	1975204.0	0.420704	Y
8	IC 160-358742/10	200.0	79.327604	50.0	1969866.0	0.396638	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

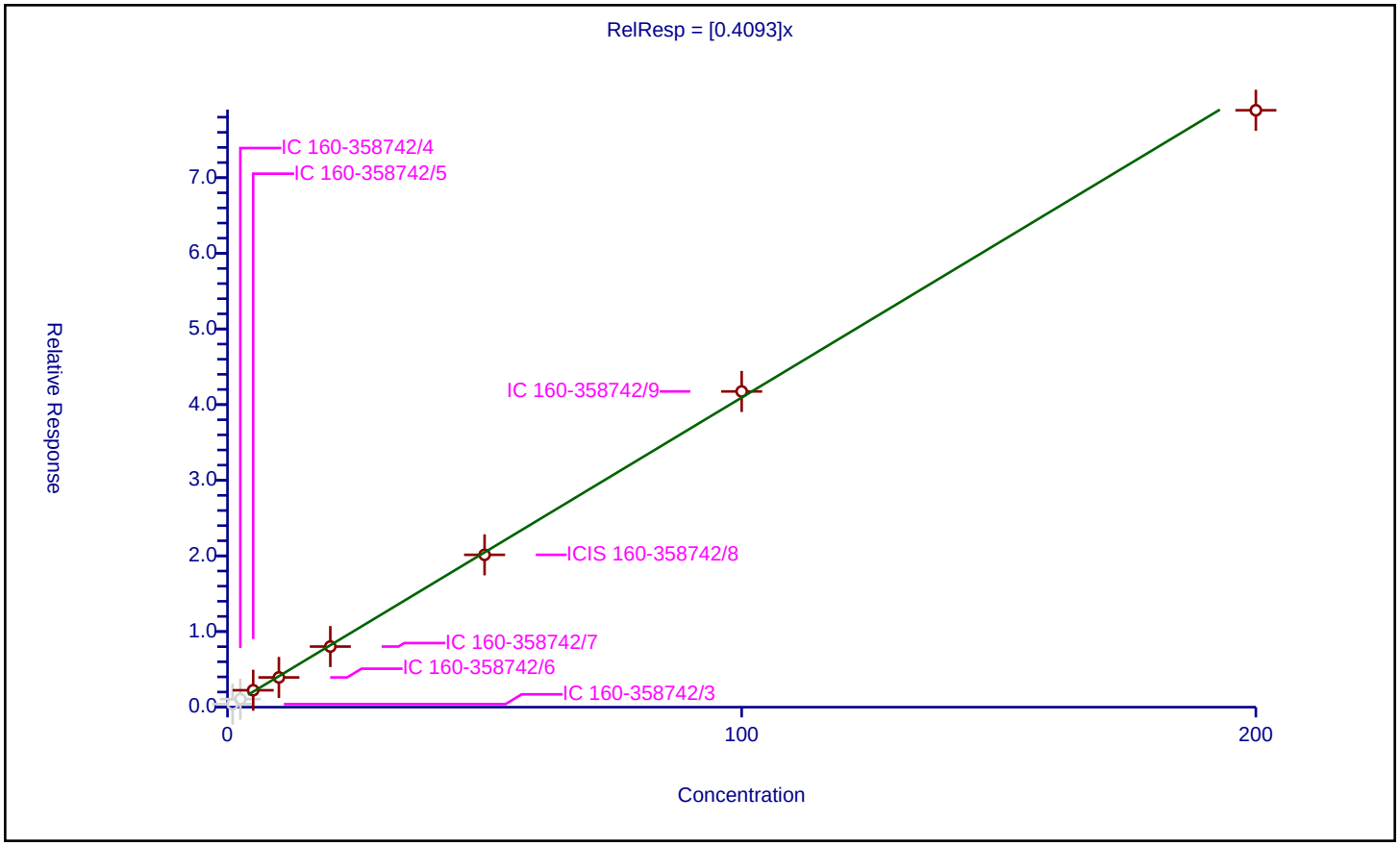
Curve Coefficients

Intercept:	0
Slope:	0.4093

Error Coefficients

Standard Error:	1620000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.402507	50.0	1816365.0	0.402507	N
2	IC 160-358742/4	2.5	1.060904	50.0	1806431.0	0.424362	N
3	IC 160-358742/5	5.0	2.235107	50.0	1826937.0	0.447021	Y
4	IC 160-358742/6	10.0	3.934483	50.0	1818587.0	0.393448	Y
5	IC 160-358742/7	20.0	8.012838	50.0	1866848.0	0.400642	Y
6	ICIS 160-358742/8	50.0	20.14164	50.0	1931588.0	0.402833	Y
7	IC 160-358742/9	100.0	41.739866	50.0	1975204.0	0.417399	Y
8	IC 160-358742/10	200.0	78.913337	50.0	1969866.0	0.394567	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

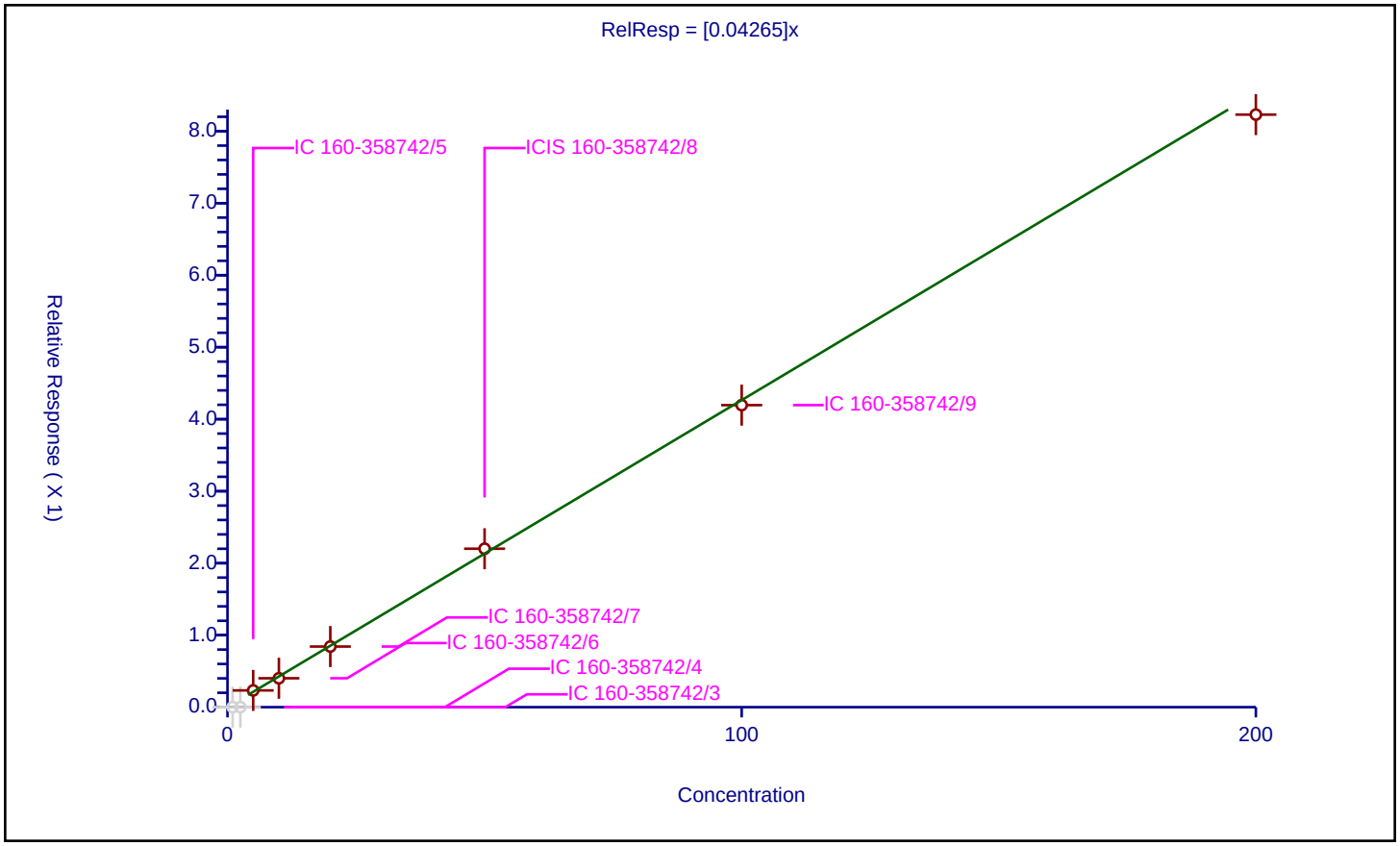
Curve Coefficients

Intercept:	0
Slope:	0.04265

Error Coefficients

Standard Error:	168000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	2.5	0.0	50.0	1806431.0	0.0	N
3	IC 160-358742/5	5.0	0.232685	50.0	1826937.0	0.046537	Y
4	IC 160-358742/6	10.0	0.401383	50.0	1818587.0	0.040138	Y
5	IC 160-358742/7	20.0	0.842061	50.0	1866848.0	0.042103	Y
6	ICIS 160-358742/8	50.0	2.200961	50.0	1931588.0	0.044019	Y
7	IC 160-358742/9	100.0	4.195313	50.0	1975204.0	0.041953	Y
8	IC 160-358742/10	200.0	8.230255	50.0	1969866.0	0.041151	Y



Calibration / Isooctane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

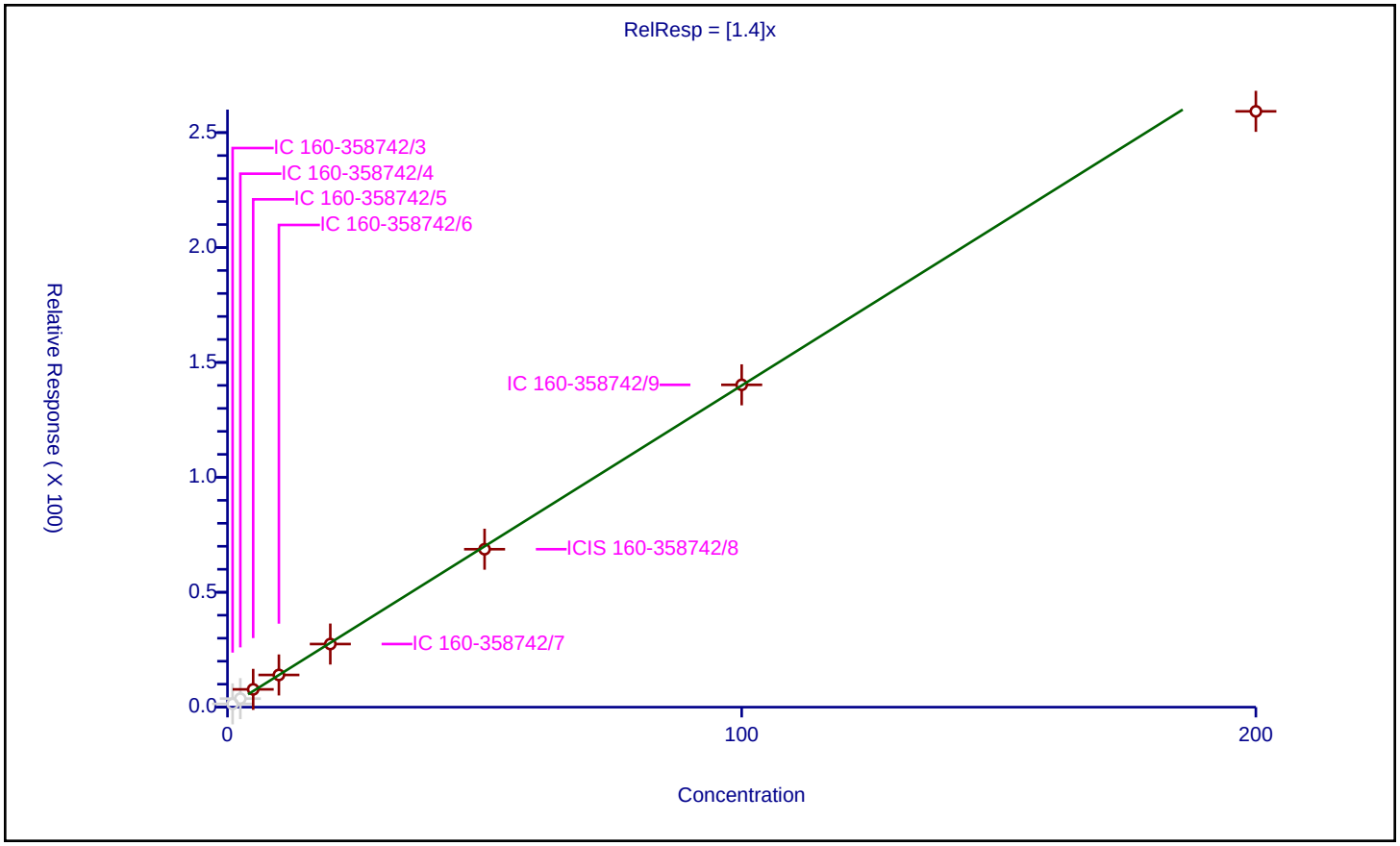
Curve Coefficients

Intercept:	0
Slope:	1.4

Error Coefficients

Standard Error:	5360000
Relative Standard Error:	5.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	1.437239	50.0	1816365.0	1.437239	N
2	IC 160-358742/4	2.5	3.707421	50.0	1806431.0	1.482968	N
3	IC 160-358742/5	5.0	7.744985	50.0	1826937.0	1.548997	Y
4	IC 160-358742/6	10.0	14.017806	50.0	1818587.0	1.401781	Y
5	IC 160-358742/7	20.0	27.467903	50.0	1866848.0	1.373395	Y
6	ICIS 160-358742/8	50.0	68.725629	50.0	1931588.0	1.374513	Y
7	IC 160-358742/9	100.0	140.247336	50.0	1975204.0	1.402473	Y
8	IC 160-358742/10	200.0	259.248751	50.0	1969866.0	1.296244	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

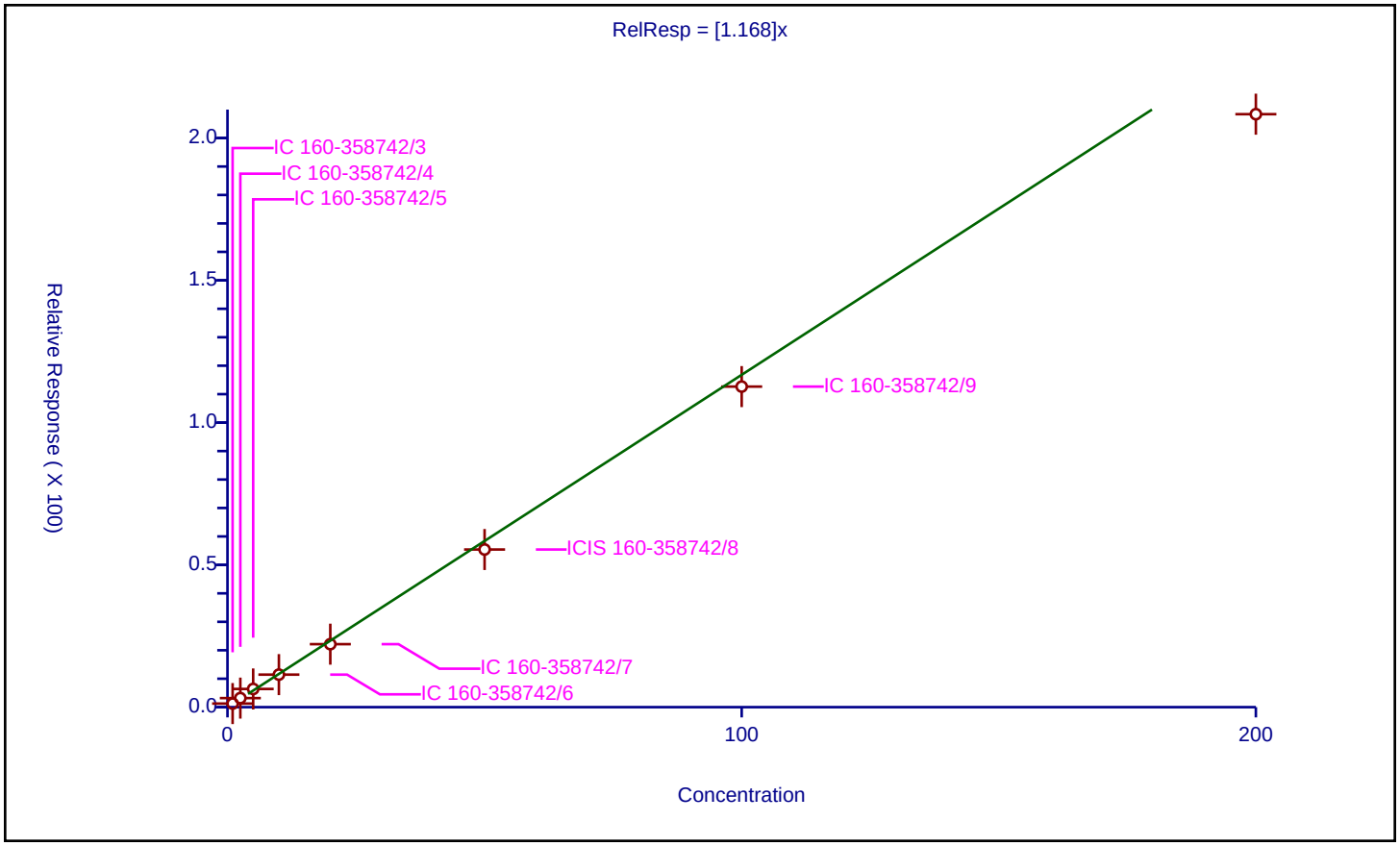
Curve Coefficients

Intercept:	0
Slope:	1.168

Error Coefficients

Standard Error:	3640000
Relative Standard Error:	7.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	1.262852	50.0	1816365.0	1.262852	Y
2	IC 160-358742/4	2.5	3.182685	50.0	1806431.0	1.273074	Y
3	IC 160-358742/5	5.0	6.403259	50.0	1826937.0	1.280652	Y
4	IC 160-358742/6	10.0	11.437644	50.0	1818587.0	1.143764	Y
5	IC 160-358742/7	20.0	22.142295	50.0	1866848.0	1.107115	Y
6	ICIS 160-358742/8	50.0	55.404828	50.0	1931588.0	1.108097	Y
7	IC 160-358742/9	100.0	112.659325	50.0	1975204.0	1.126593	Y
8	IC 160-358742/10	200.0	208.391916	50.0	1969866.0	1.04196	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

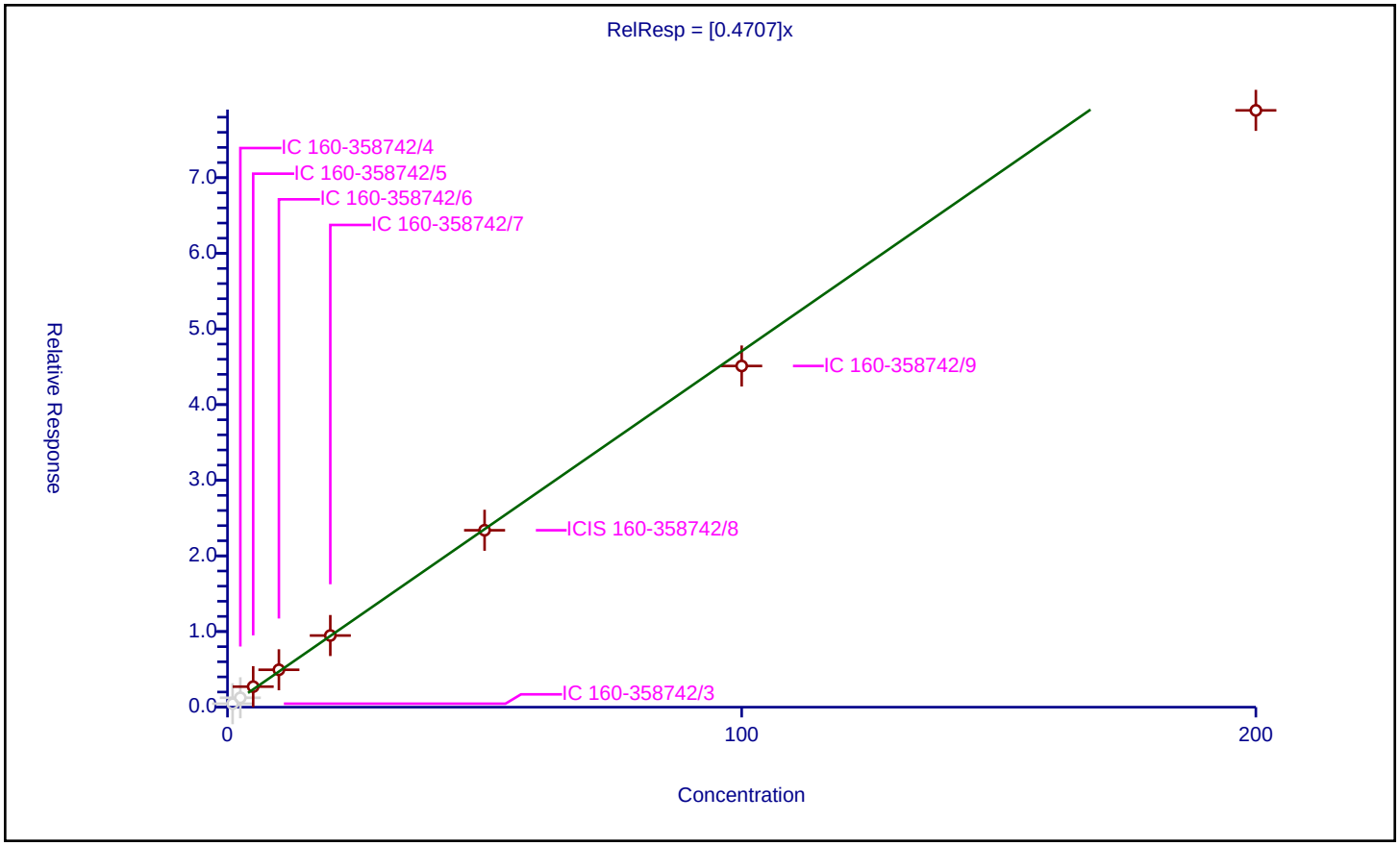
Curve Coefficients

Intercept:	0
Slope:	0.4707

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	10.4
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.459296	50.0	1816365.0	0.459296	N
2	IC 160-358742/4	2.5	1.243695	50.0	1806431.0	0.497478	N
3	IC 160-358742/5	5.0	2.713175	50.0	1826937.0	0.542635	Y
4	IC 160-358742/6	10.0	4.944746	50.0	1818587.0	0.494475	Y
5	IC 160-358742/7	20.0	9.472624	50.0	1866848.0	0.473631	Y
6	ICIS 160-358742/8	50.0	23.387933	50.0	1931588.0	0.467759	Y
7	IC 160-358742/9	100.0	45.105189	50.0	1975204.0	0.451052	Y
8	IC 160-358742/10	200.0	78.89958	50.0	1969866.0	0.394498	Y



Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

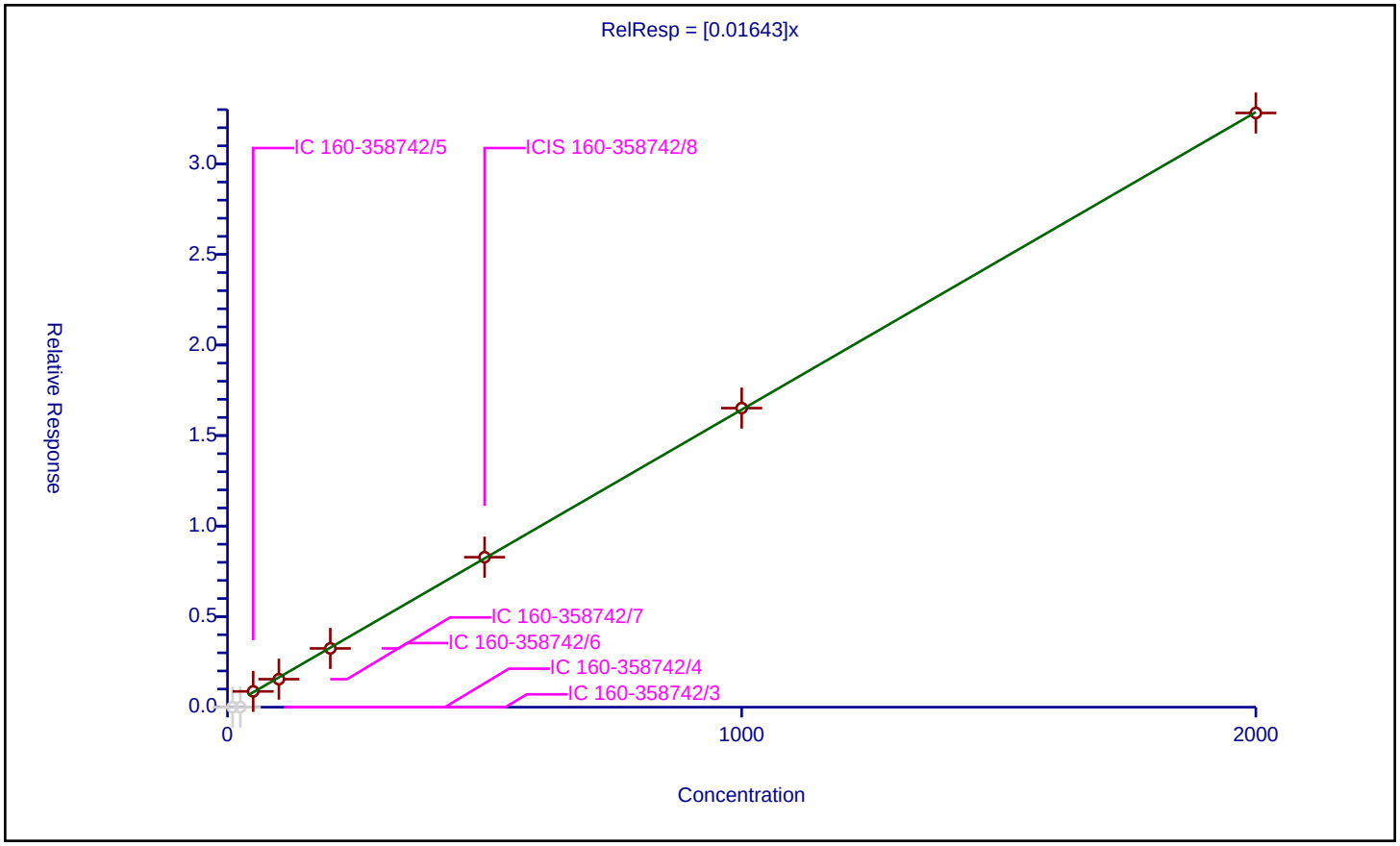
Curve Coefficients

Intercept:	0
Slope:	0.01643

Error Coefficients

Standard Error:	666000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	10.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	25.0	0.0	50.0	1806431.0	0.0	N
3	IC 160-358742/5	50.0	0.871021	50.0	1826937.0	0.01742	Y
4	IC 160-358742/6	100.0	1.545266	50.0	1818587.0	0.015453	Y
5	IC 160-358742/7	200.0	3.244265	50.0	1866848.0	0.016221	Y
6	ICIS 160-358742/8	500.0	8.282719	50.0	1931588.0	0.016565	Y
7	IC 160-358742/9	1000.0	16.515307	50.0	1975204.0	0.016515	Y
8	IC 160-358742/10	2000.0	32.813933	50.0	1969866.0	0.016407	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

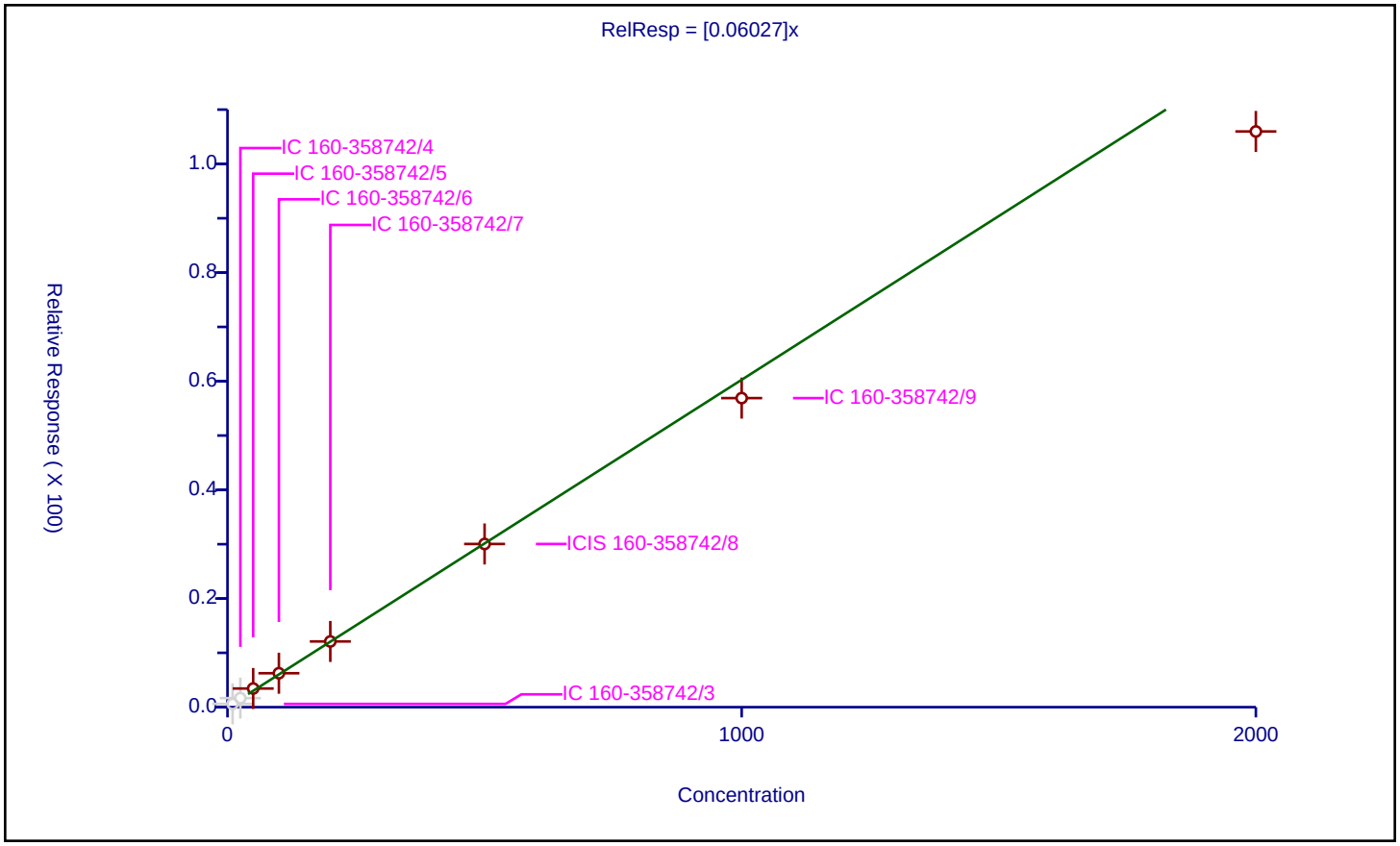
Curve Coefficients

Intercept:	0
Slope:	0.06027

Error Coefficients

Standard Error:	2200000
Relative Standard Error:	8.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	10.0	0.596549	50.0	1816365.0	0.059655	N
2	IC 160-358742/4	25.0	1.664525	50.0	1806431.0	0.066581	N
3	IC 160-358742/5	50.0	3.435504	50.0	1826937.0	0.06871	Y
4	IC 160-358742/6	100.0	6.245068	50.0	1818587.0	0.062451	Y
5	IC 160-358742/7	200.0	12.097102	50.0	1866848.0	0.060486	Y
6	ICIS 160-358742/8	500.0	30.040335	50.0	1931588.0	0.060081	Y
7	IC 160-358742/9	1000.0	56.892883	50.0	1975204.0	0.056893	Y
8	IC 160-358742/10	2000.0	105.978935	50.0	1969866.0	0.052989	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

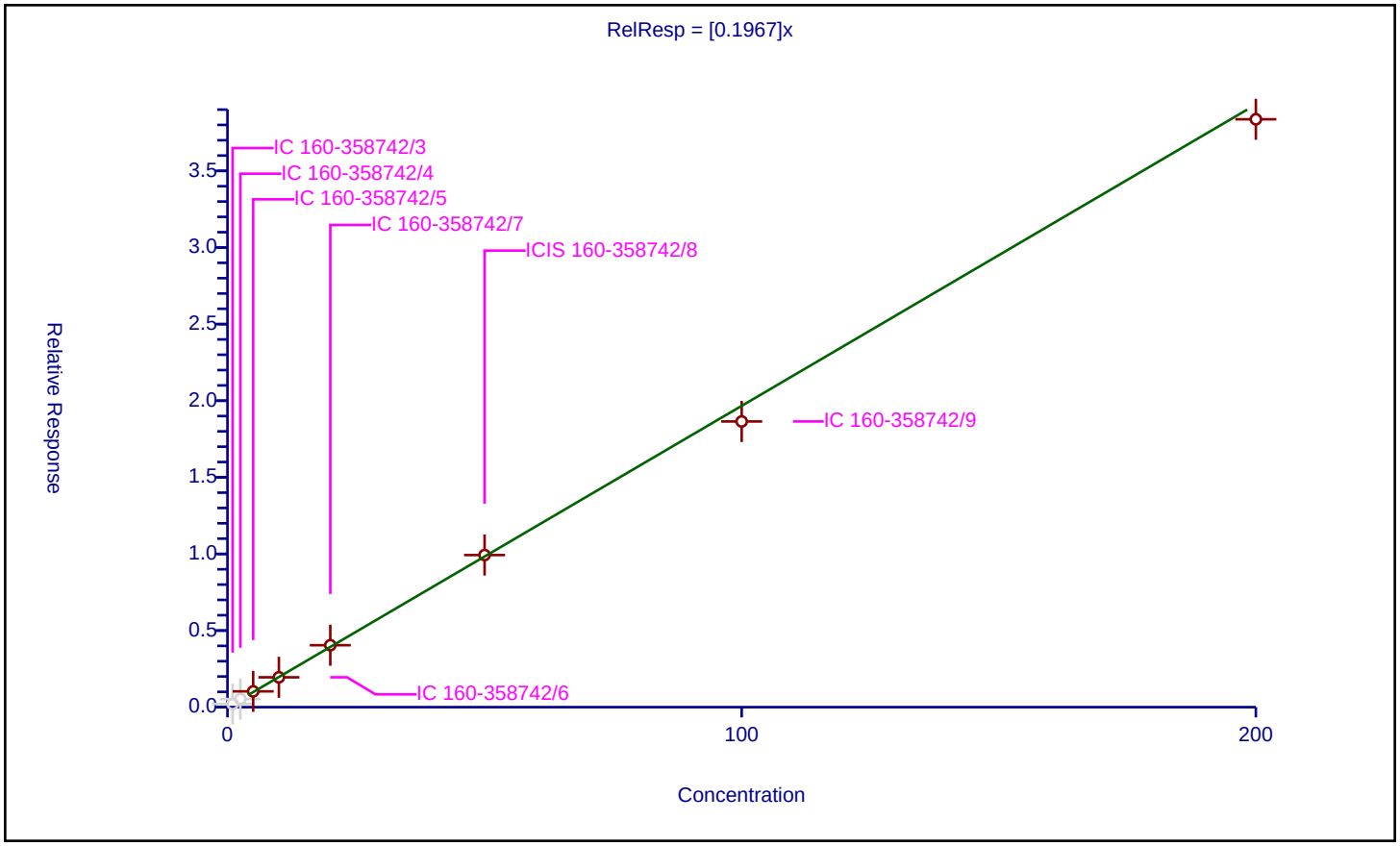
Curve Coefficients

Intercept:	0
Slope:	0.1967

Error Coefficients

Standard Error:	775000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.208631	50.0	1816365.0	0.208631	N
2	IC 160-358742/4	2.5	0.529691	50.0	1806431.0	0.211876	N
3	IC 160-358742/5	5.0	1.03066	50.0	1826937.0	0.206132	Y
4	IC 160-358742/6	10.0	1.947968	50.0	1818587.0	0.194797	Y
5	IC 160-358742/7	20.0	4.0435	50.0	1866848.0	0.202175	Y
6	ICIS 160-358742/8	50.0	9.927842	50.0	1931588.0	0.198557	Y
7	IC 160-358742/9	100.0	18.647087	50.0	1975204.0	0.186471	Y
8	IC 160-358742/10	200.0	38.367813	50.0	1969866.0	0.191839	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

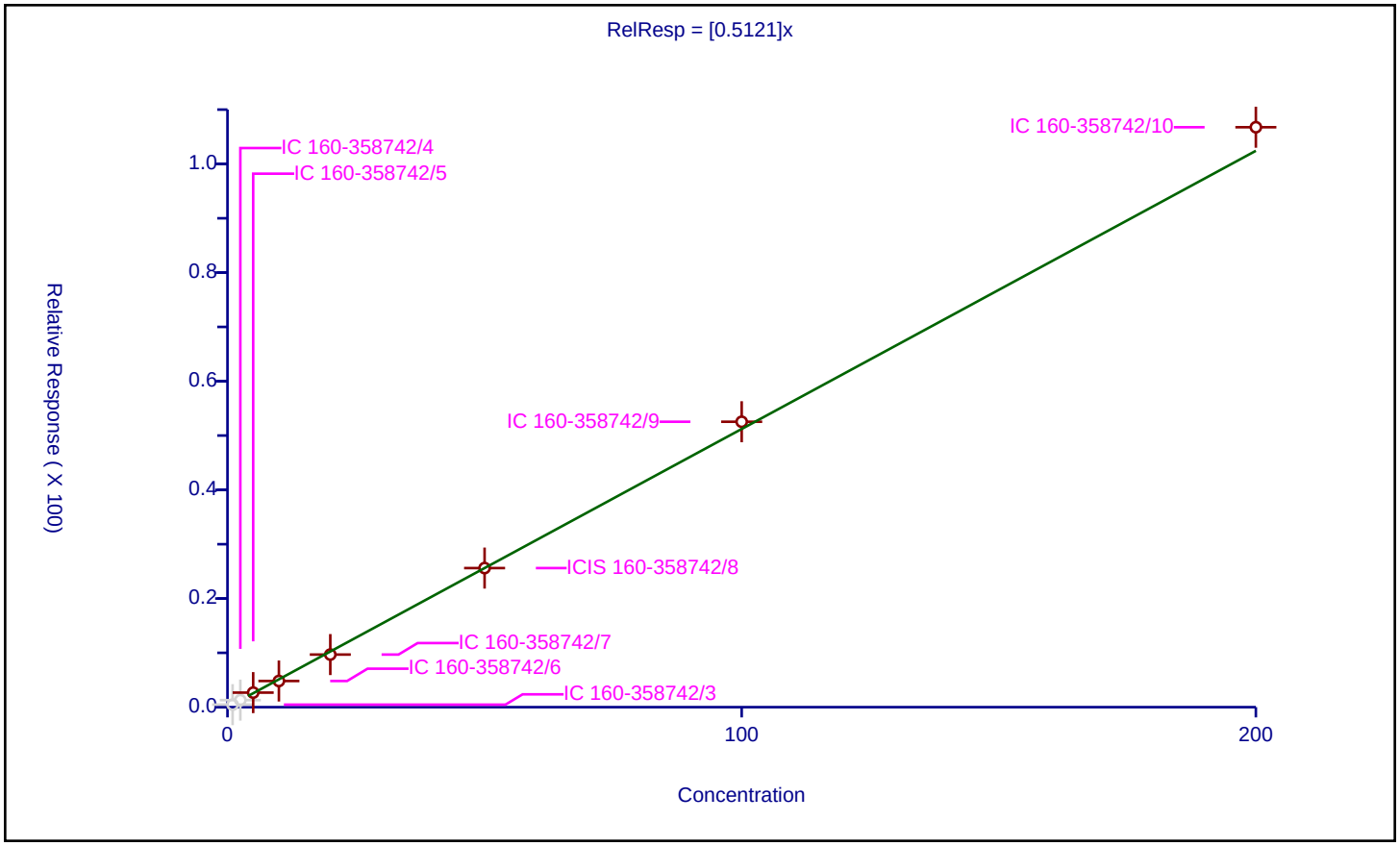
Curve Coefficients

Intercept:	0
Slope:	0.5121

Error Coefficients

Standard Error:	2150000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.46315	50.0	1816365.0	0.46315	N
2	IC 160-358742/4	2.5	1.293462	50.0	1806431.0	0.517385	N
3	IC 160-358742/5	5.0	2.67735	50.0	1826937.0	0.53547	Y
4	IC 160-358742/6	10.0	4.816817	50.0	1818587.0	0.481682	Y
5	IC 160-358742/7	20.0	9.683783	50.0	1866848.0	0.484189	Y
6	ICIS 160-358742/8	50.0	25.60427	50.0	1931588.0	0.512085	Y
7	IC 160-358742/9	100.0	52.538902	50.0	1975204.0	0.525389	Y
8	IC 160-358742/10	200.0	106.755688	50.0	1969866.0	0.533778	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

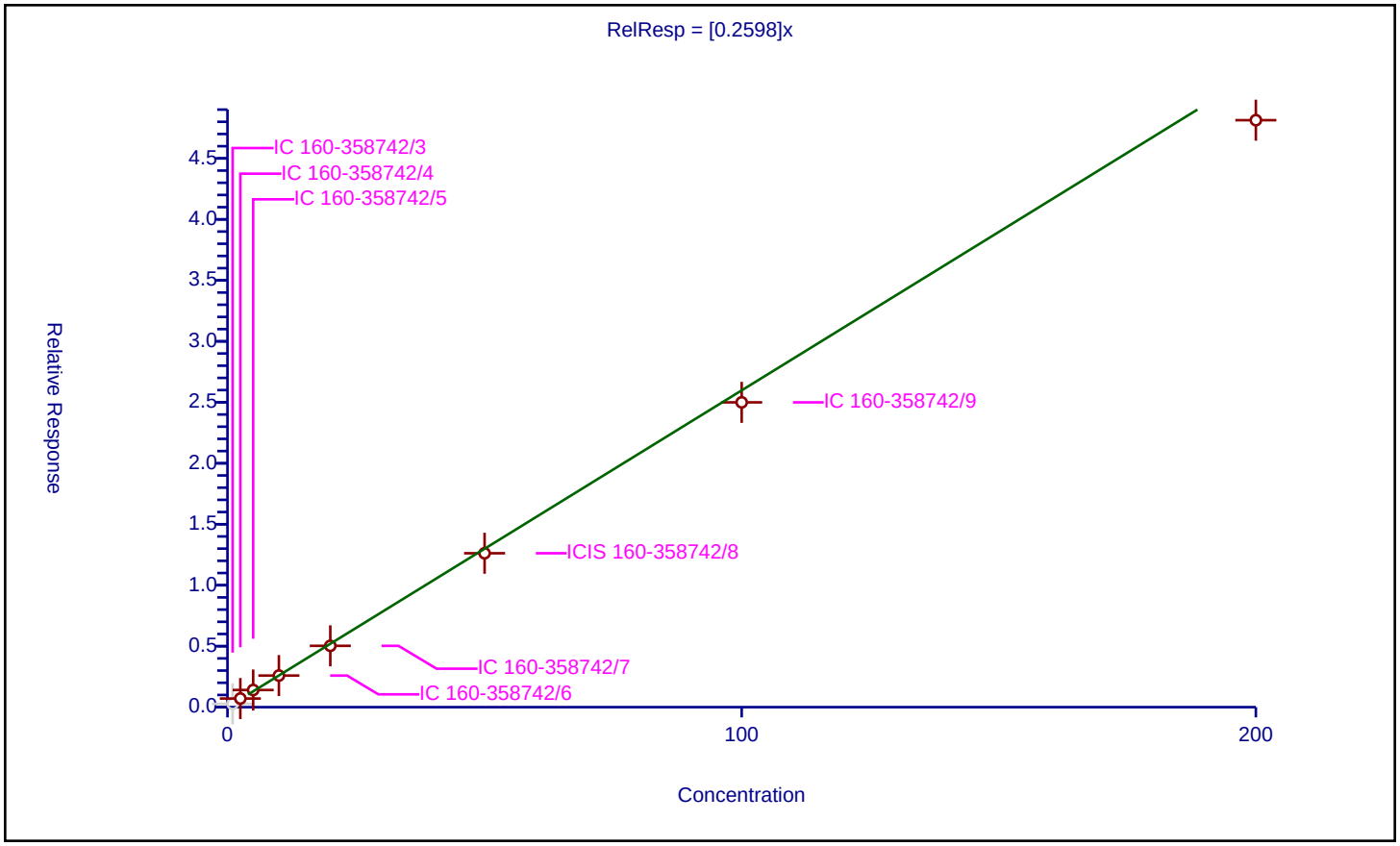
Curve Coefficients

Intercept:	0
Slope:	0.2598

Error Coefficients

Standard Error:	900000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.267843	50.0	1816365.0	0.267843	N
2	IC 160-358742/4	2.5	0.708026	50.0	1806431.0	0.28321	Y
3	IC 160-358742/5	5.0	1.407684	50.0	1826937.0	0.281537	Y
4	IC 160-358742/6	10.0	2.59105	50.0	1818587.0	0.259105	Y
5	IC 160-358742/7	20.0	5.029922	50.0	1866848.0	0.251496	Y
6	ICIS 160-358742/8	50.0	12.621325	50.0	1931588.0	0.252427	Y
7	IC 160-358742/9	100.0	24.995064	50.0	1975204.0	0.249951	Y
8	IC 160-358742/10	200.0	48.133122	50.0	1969866.0	0.240666	Y



Calibration / Isobutyl alcohol

Curve Type:	Linear
Weighting:	None
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

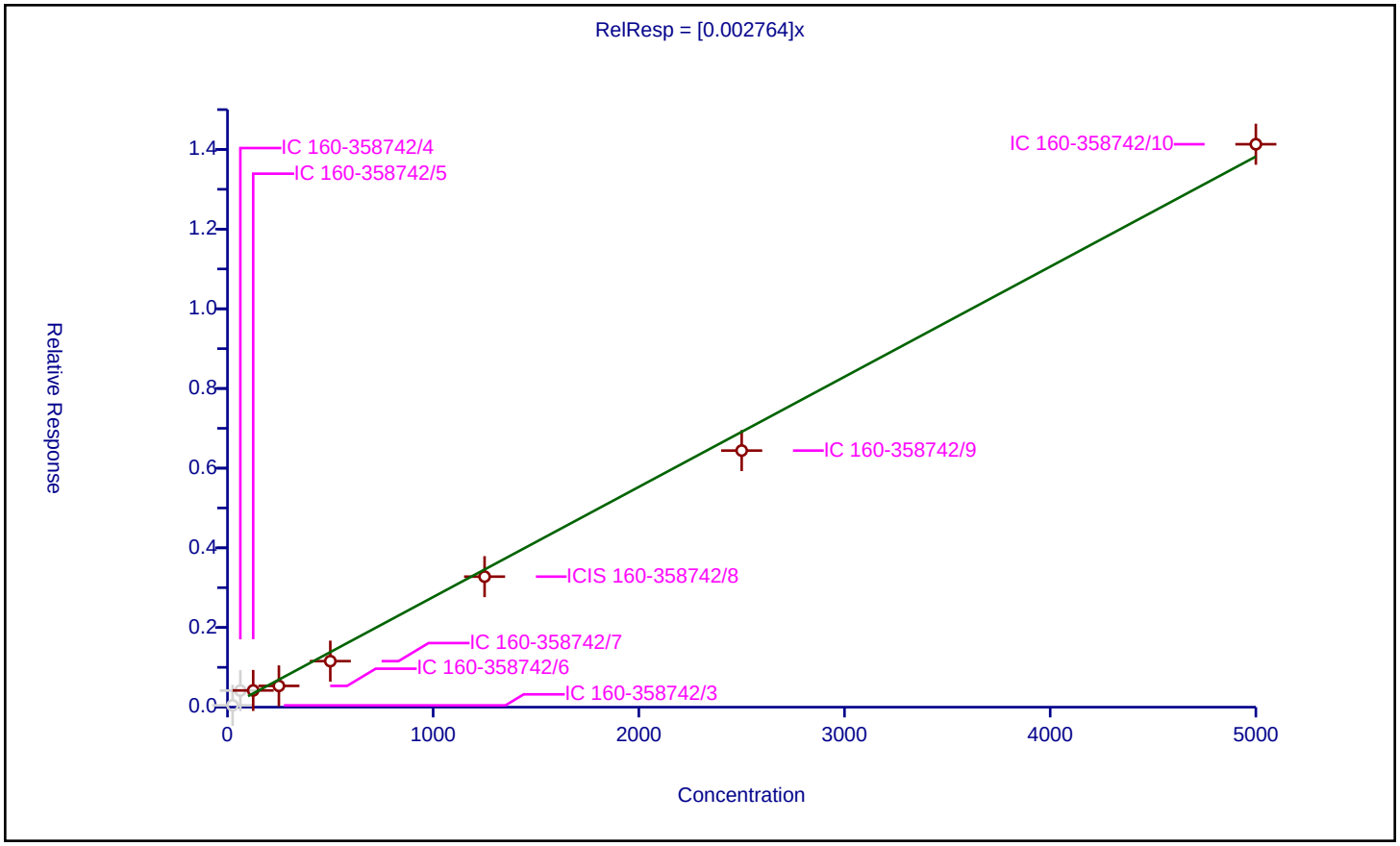
Curve Coefficients

Intercept:	0
Slope:	0.002764

Error Coefficients

Standard Error:	280000
Relative Standard Error:	16.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	25.0	0.045063	50.0	1816365.0	0.001803	N
2	IC 160-358742/4	62.5	0.416263	50.0	1806431.0	0.00666	N
3	IC 160-358742/5	125.0	0.419692	50.0	1826937.0	0.003358	Y
4	IC 160-358742/6	250.0	0.533794	50.0	1818587.0	0.002135	Y
5	IC 160-358742/7	500.0	1.155611	50.0	1866848.0	0.002311	Y
6	ICIS 160-358742/8	1250.0	3.276786	50.0	1931588.0	0.002621	Y
7	IC 160-358742/9	2500.0	6.440803	50.0	1975204.0	0.002576	Y
8	IC 160-358742/10	5000.0	14.130606	50.0	1969866.0	0.002826	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

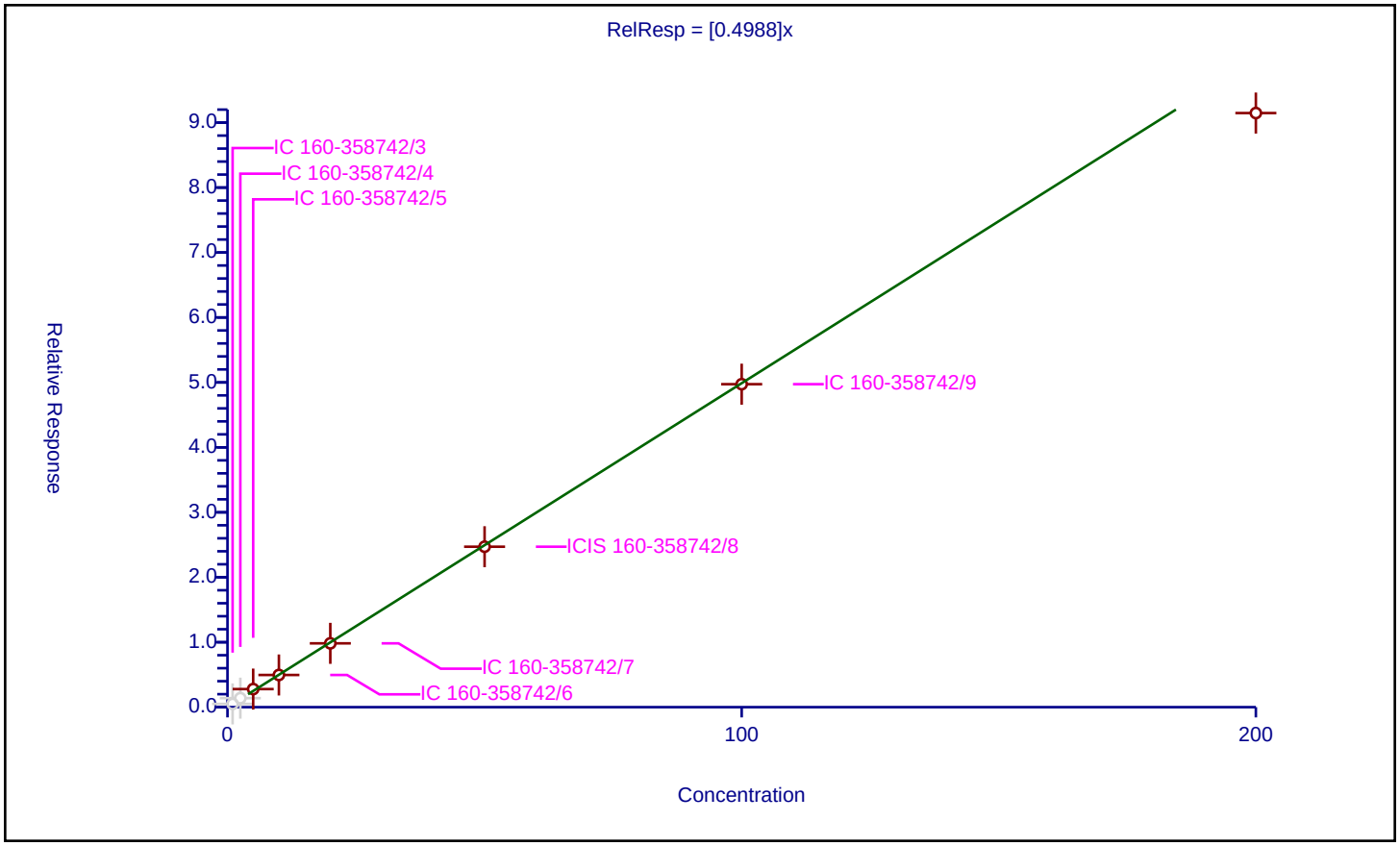
Curve Coefficients

Intercept:	0
Slope:	0.4988

Error Coefficients

Standard Error:	1890000
Relative Standard Error:	6.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.499817	50.0	1816365.0	0.499817	N
2	IC 160-358742/4	2.5	1.388262	50.0	1806431.0	0.555305	N
3	IC 160-358742/5	5.0	2.785017	50.0	1826937.0	0.557003	Y
4	IC 160-358742/6	10.0	4.957035	50.0	1818587.0	0.495704	Y
5	IC 160-358742/7	20.0	9.826938	50.0	1866848.0	0.491347	Y
6	ICIS 160-358742/8	50.0	24.70356	50.0	1931588.0	0.494071	Y
7	IC 160-358742/9	100.0	49.724661	50.0	1975204.0	0.497247	Y
8	IC 160-358742/10	200.0	91.467719	50.0	1969866.0	0.457339	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

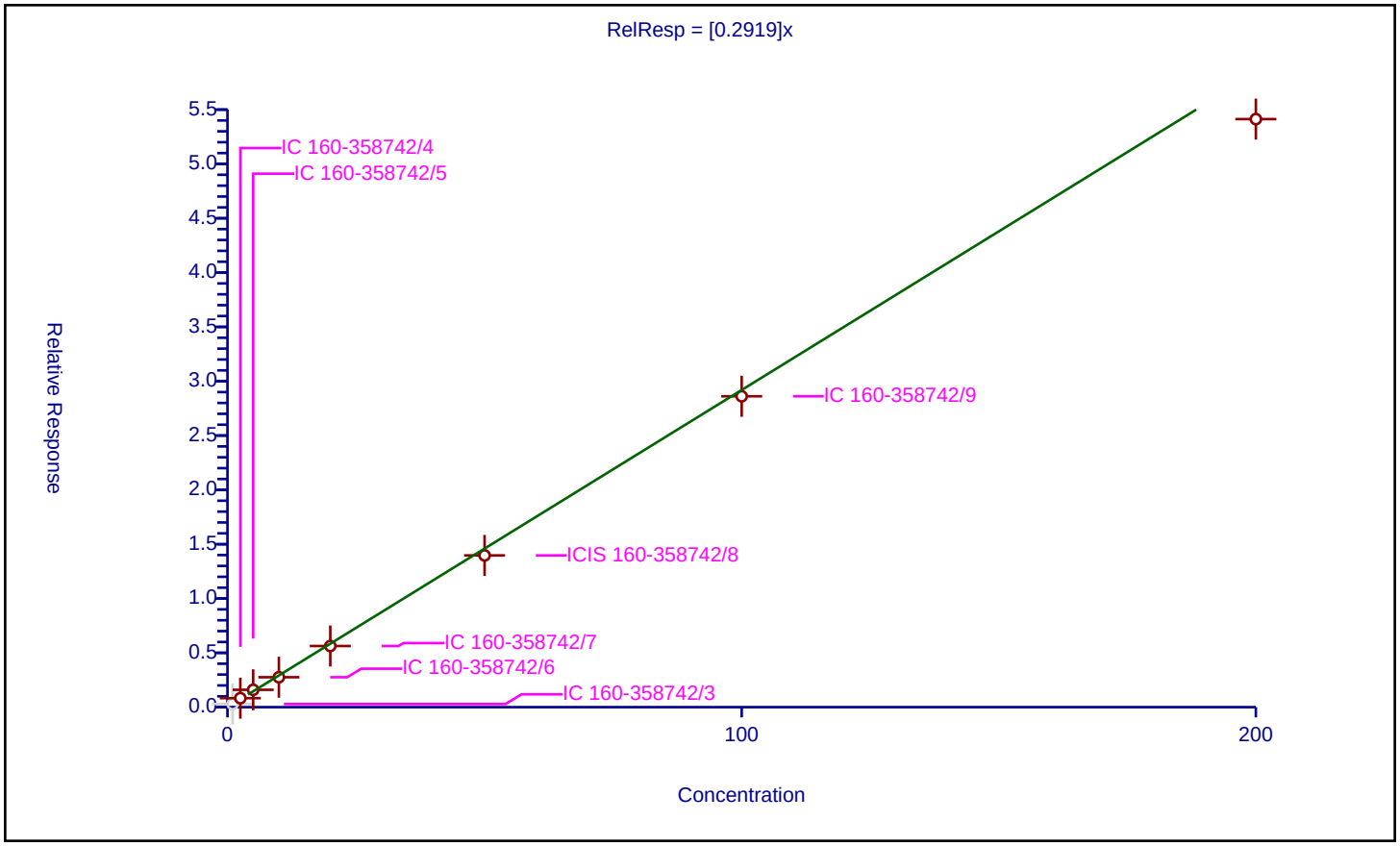
Curve Coefficients

Intercept:	0
Slope:	0.2919

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.288461	50.0	1816365.0	0.288461	N
2	IC 160-358742/4	2.5	0.826353	50.0	1806431.0	0.330541	Y
3	IC 160-358742/5	5.0	1.599097	50.0	1826937.0	0.319819	Y
4	IC 160-358742/6	10.0	2.755298	50.0	1818587.0	0.27553	Y
5	IC 160-358742/7	20.0	5.628792	50.0	1866848.0	0.28144	Y
6	ICIS 160-358742/8	50.0	13.968507	50.0	1931588.0	0.27937	Y
7	IC 160-358742/9	100.0	28.613247	50.0	1975204.0	0.286132	Y
8	IC 160-358742/10	200.0	54.126397	50.0	1969866.0	0.270632	Y



Calibration / n-Butanol

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

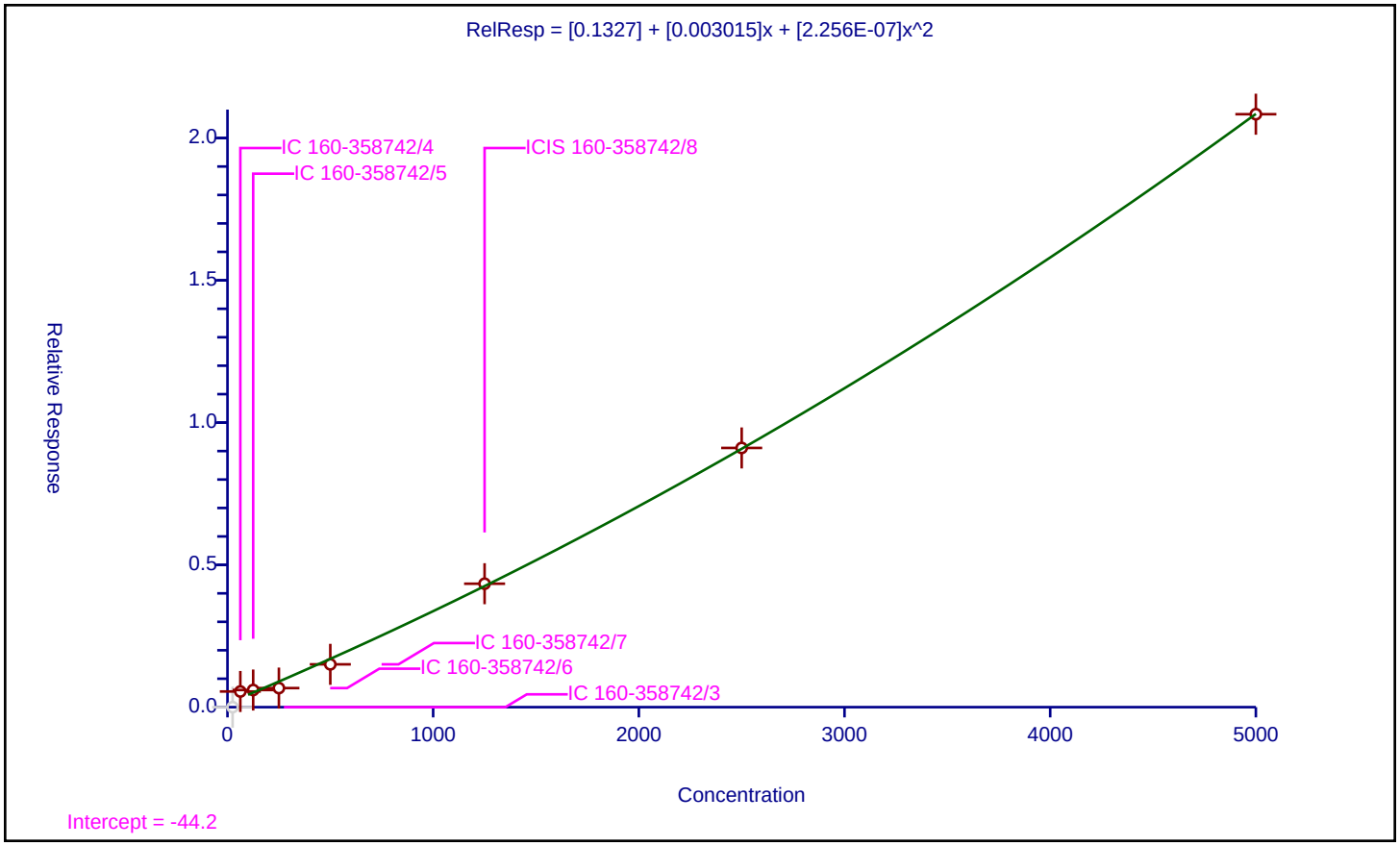
Curve Coefficients

Intercept:	0.1327
Slope:	0.003015
Second Order:	2.256E-07

Error Coefficients

Standard Error:	457000
Relative Standard Error:	63.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	25.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	62.5	0.551308	50.0	1806431.0	0.008821	Y
3	IC 160-358742/5	125.0	0.601964	50.0	1826937.0	0.004816	Y
4	IC 160-358742/6	250.0	0.670686	50.0	1818587.0	0.002683	Y
5	IC 160-358742/7	500.0	1.504729	50.0	1866848.0	0.003009	Y
6	ICIS 160-358742/8	1250.0	4.33871	50.0	1931588.0	0.003471	Y
7	IC 160-358742/9	2500.0	9.109844	50.0	1975204.0	0.003644	Y
8	IC 160-358742/10	5000.0	20.838524	50.0	1969866.0	0.004168	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

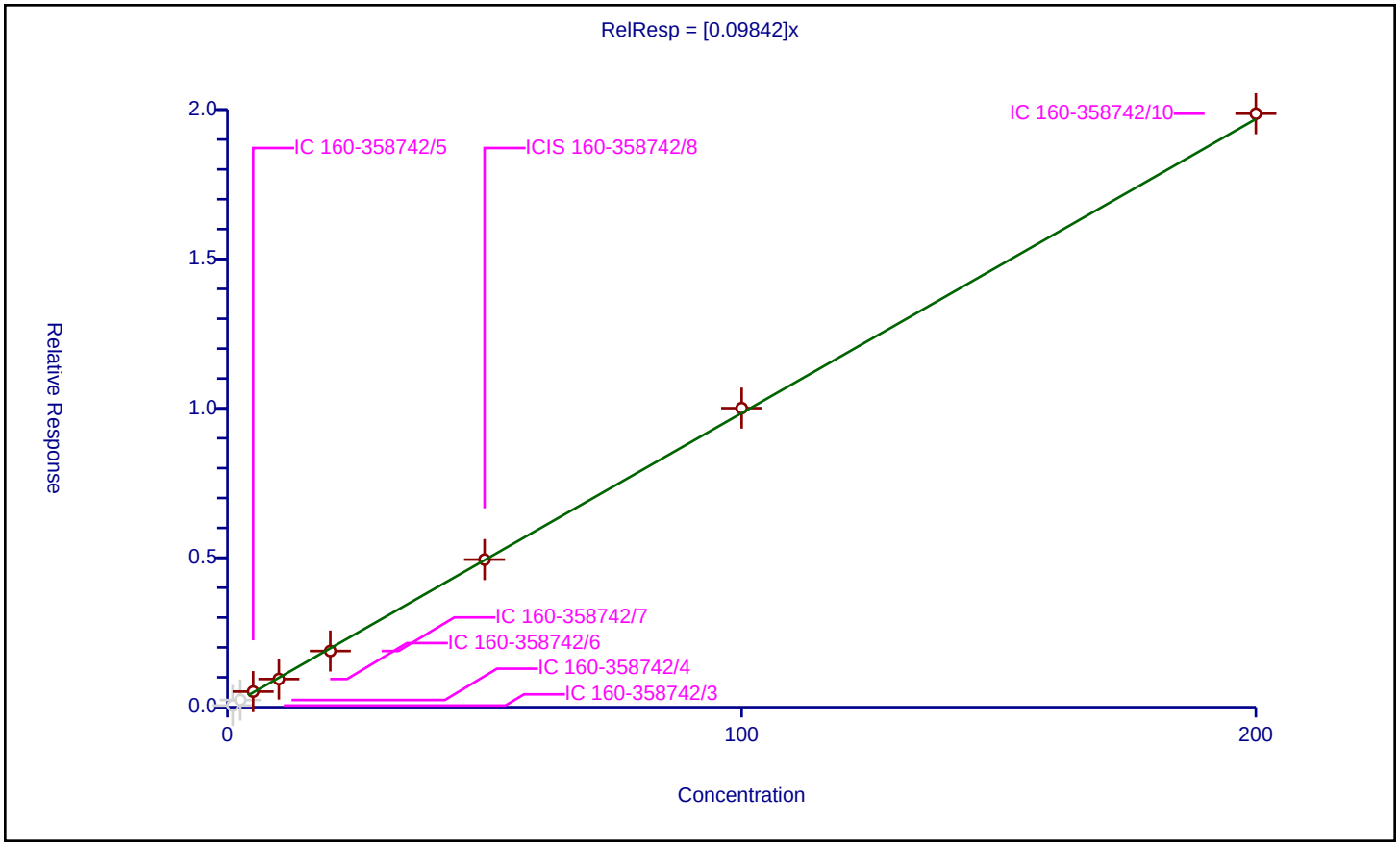
Curve Coefficients

Intercept:	0
Slope:	0.09842

Error Coefficients

Standard Error:	403000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.055495	50.0	1816365.0	0.055495	N
2	IC 160-358742/4	2.5	0.239865	50.0	1806431.0	0.095946	N
3	IC 160-358742/5	5.0	0.521474	50.0	1826937.0	0.104295	Y
4	IC 160-358742/6	10.0	0.940868	50.0	1818587.0	0.094087	Y
5	IC 160-358742/7	20.0	1.879184	50.0	1866848.0	0.093959	Y
6	ICIS 160-358742/8	50.0	4.939123	50.0	1931588.0	0.098782	Y
7	IC 160-358742/9	100.0	10.008409	50.0	1975204.0	0.100084	Y
8	IC 160-358742/10	200.0	19.863077	50.0	1969866.0	0.099315	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

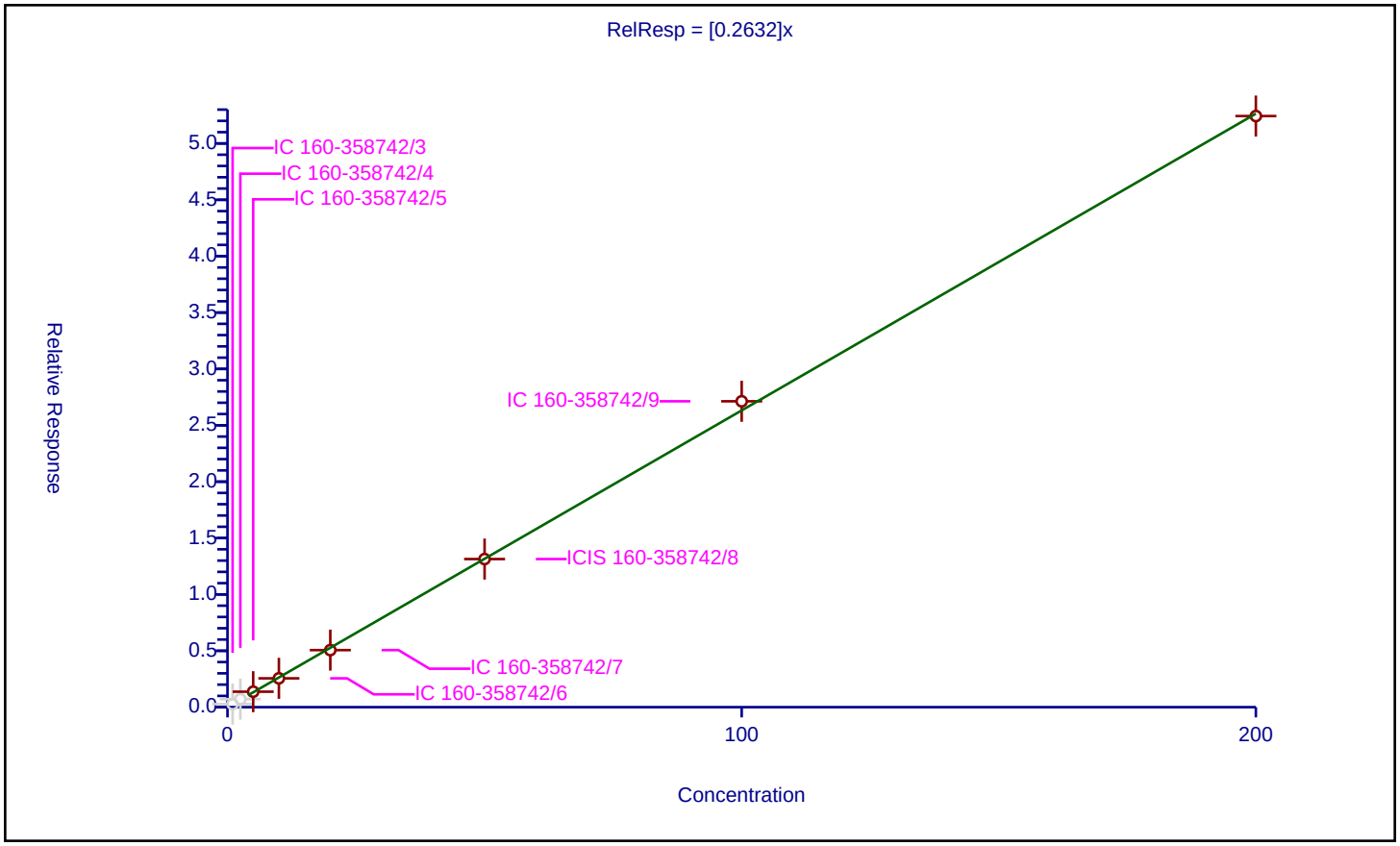
Curve Coefficients

Intercept:	0
Slope:	0.2632

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.269797	50.0	1816365.0	0.269797	N
2	IC 160-358742/4	2.5	0.713562	50.0	1806431.0	0.285425	N
3	IC 160-358742/5	5.0	1.371558	50.0	1826937.0	0.274312	Y
4	IC 160-358742/6	10.0	2.556958	50.0	1818587.0	0.255696	Y
5	IC 160-358742/7	20.0	5.060857	50.0	1866848.0	0.253043	Y
6	ICIS 160-358742/8	50.0	13.136342	50.0	1931588.0	0.262727	Y
7	IC 160-358742/9	100.0	27.129805	50.0	1975204.0	0.271298	Y
8	IC 160-358742/10	200.0	52.429099	50.0	1969866.0	0.262145	Y



Calibration / Ethyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

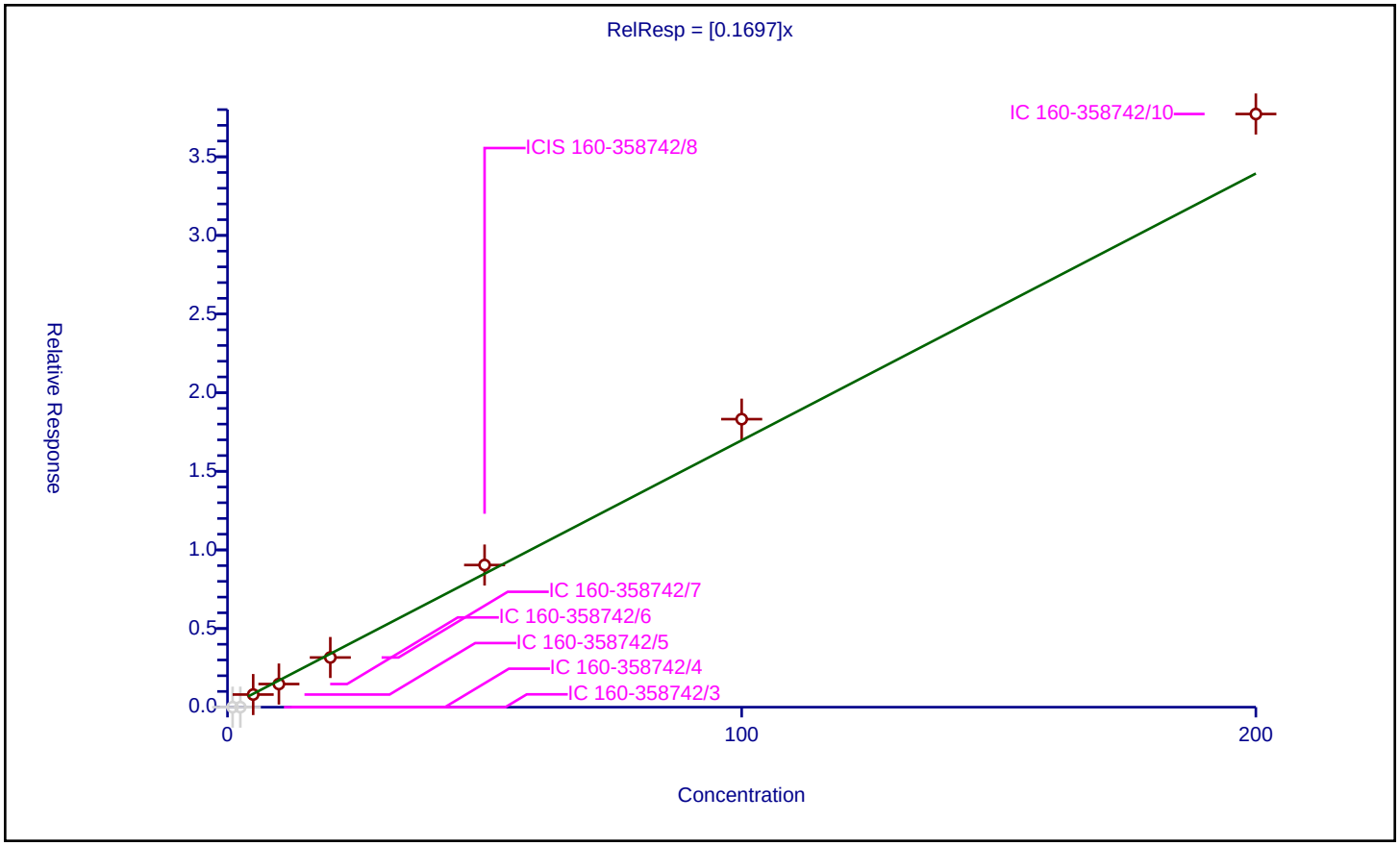
Curve Coefficients

Intercept:	0
Slope:	0.1697

Error Coefficients

Standard Error:	758000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	2.5	0.0	50.0	1806431.0	0.0	N
3	IC 160-358742/5	5.0	0.802463	50.0	1826937.0	0.160493	Y
4	IC 160-358742/6	10.0	1.471555	50.0	1818587.0	0.147155	Y
5	IC 160-358742/7	20.0	3.159041	50.0	1866848.0	0.157952	Y
6	ICIS 160-358742/8	50.0	9.038599	50.0	1931588.0	0.180772	Y
7	IC 160-358742/9	100.0	18.314944	50.0	1975204.0	0.183149	Y
8	IC 160-358742/10	200.0	37.719723	50.0	1969866.0	0.188599	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

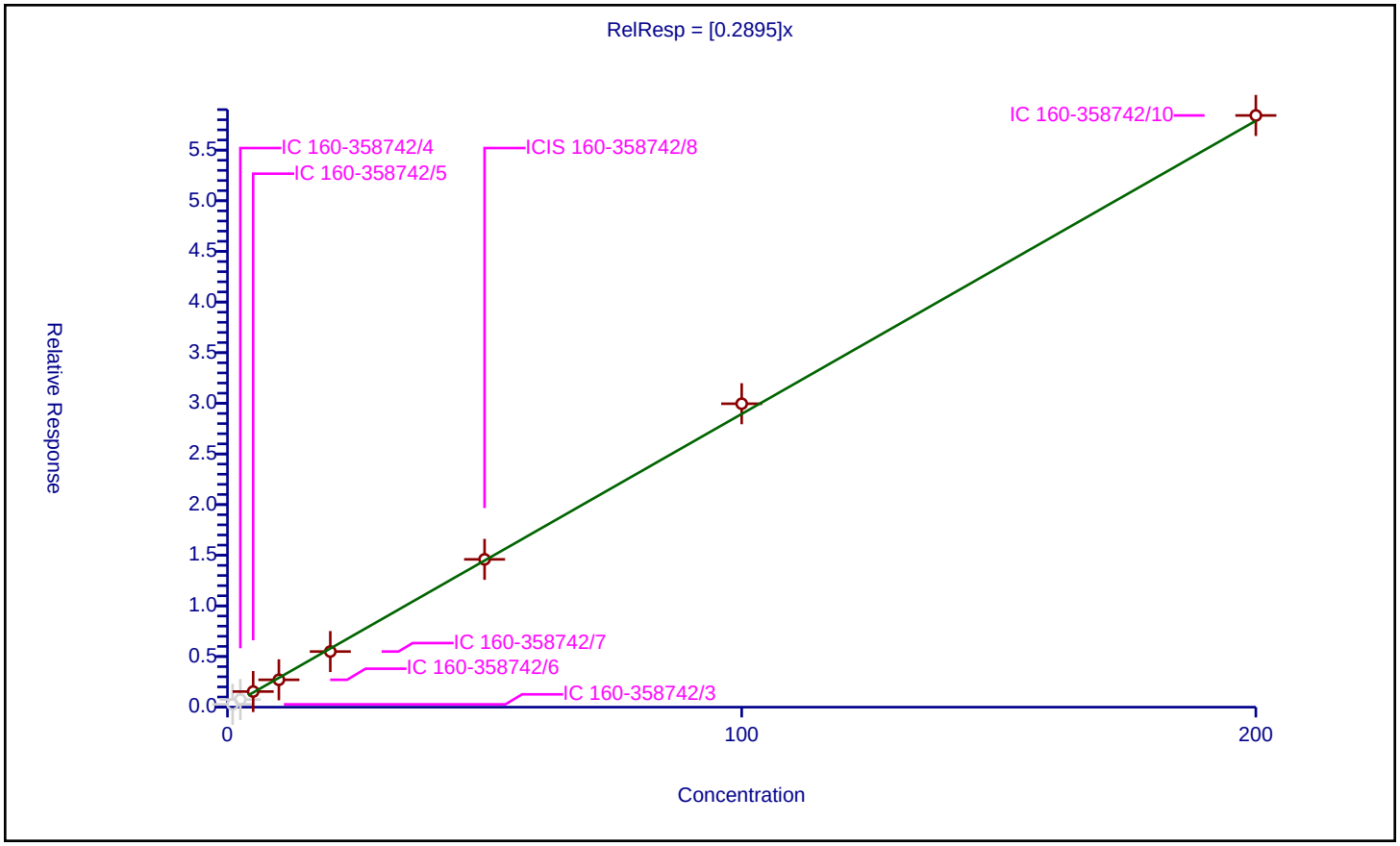
Curve Coefficients

Intercept:	0
Slope:	0.2895

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.278991	50.0	1816365.0	0.278991	N
2	IC 160-358742/4	2.5	0.752783	50.0	1806431.0	0.301113	N
3	IC 160-358742/5	5.0	1.543075	50.0	1826937.0	0.308615	Y
4	IC 160-358742/6	10.0	2.702373	50.0	1818587.0	0.270237	Y
5	IC 160-358742/7	20.0	5.491663	50.0	1866848.0	0.274583	Y
6	ICIS 160-358742/8	50.0	14.59276	50.0	1931588.0	0.291855	Y
7	IC 160-358742/9	100.0	29.960019	50.0	1975204.0	0.2996	Y
8	IC 160-358742/10	200.0	58.423822	50.0	1969866.0	0.292119	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

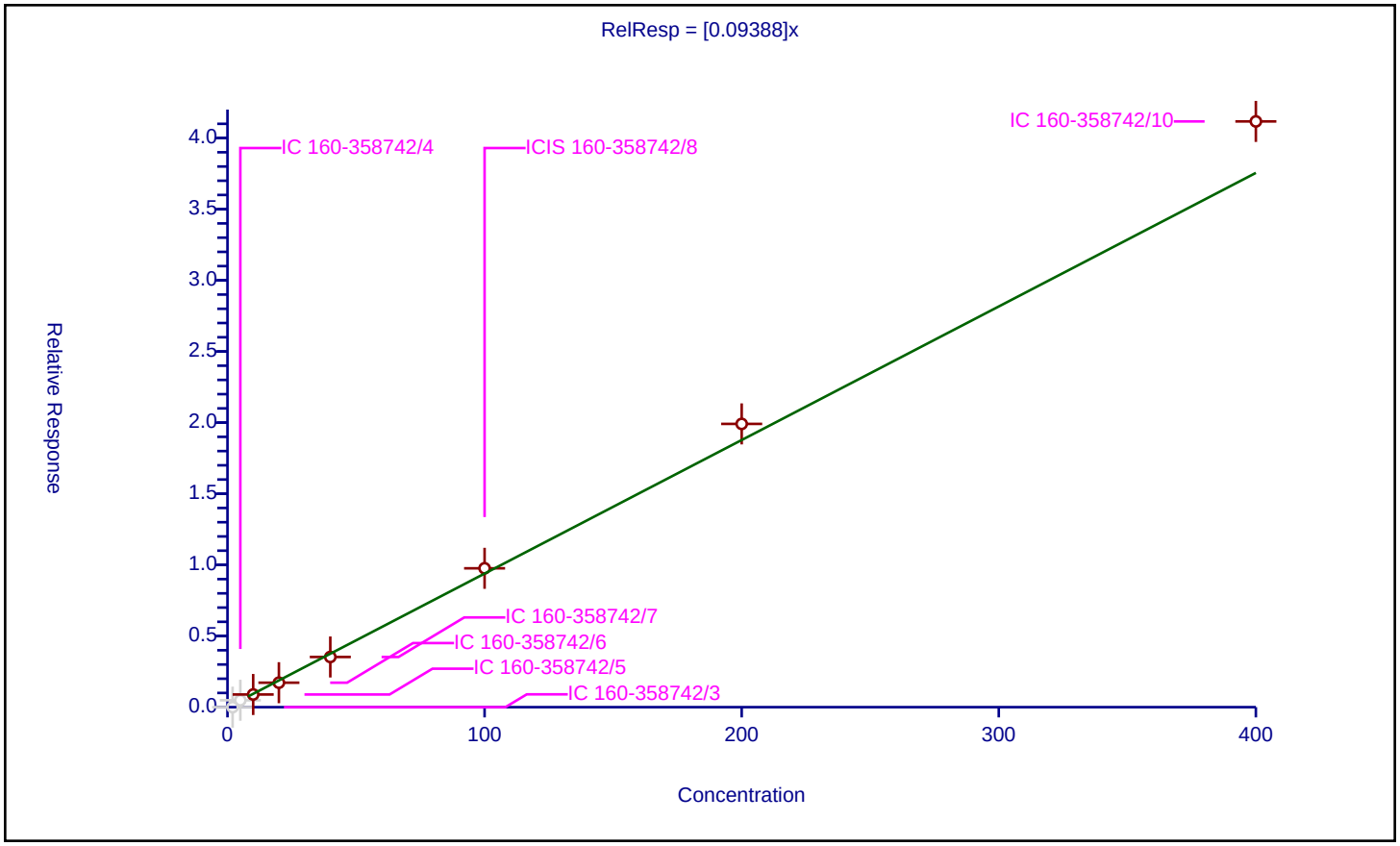
Curve Coefficients

Intercept:	0
Slope:	0.09388

Error Coefficients

Standard Error:	826000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	2.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	5.0	0.485266	50.0	1806431.0	0.097053	N
3	IC 160-358742/5	10.0	0.890671	50.0	1826937.0	0.089067	Y
4	IC 160-358742/6	20.0	1.719247	50.0	1818587.0	0.085962	Y
5	IC 160-358742/7	40.0	3.52664	50.0	1866848.0	0.088166	Y
6	ICIS 160-358742/8	100.0	9.760052	50.0	1931588.0	0.097601	Y
7	IC 160-358742/9	200.0	19.909437	50.0	1975204.0	0.099547	Y
8	IC 160-358742/10	400.0	41.170135	50.0	1969866.0	0.102925	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

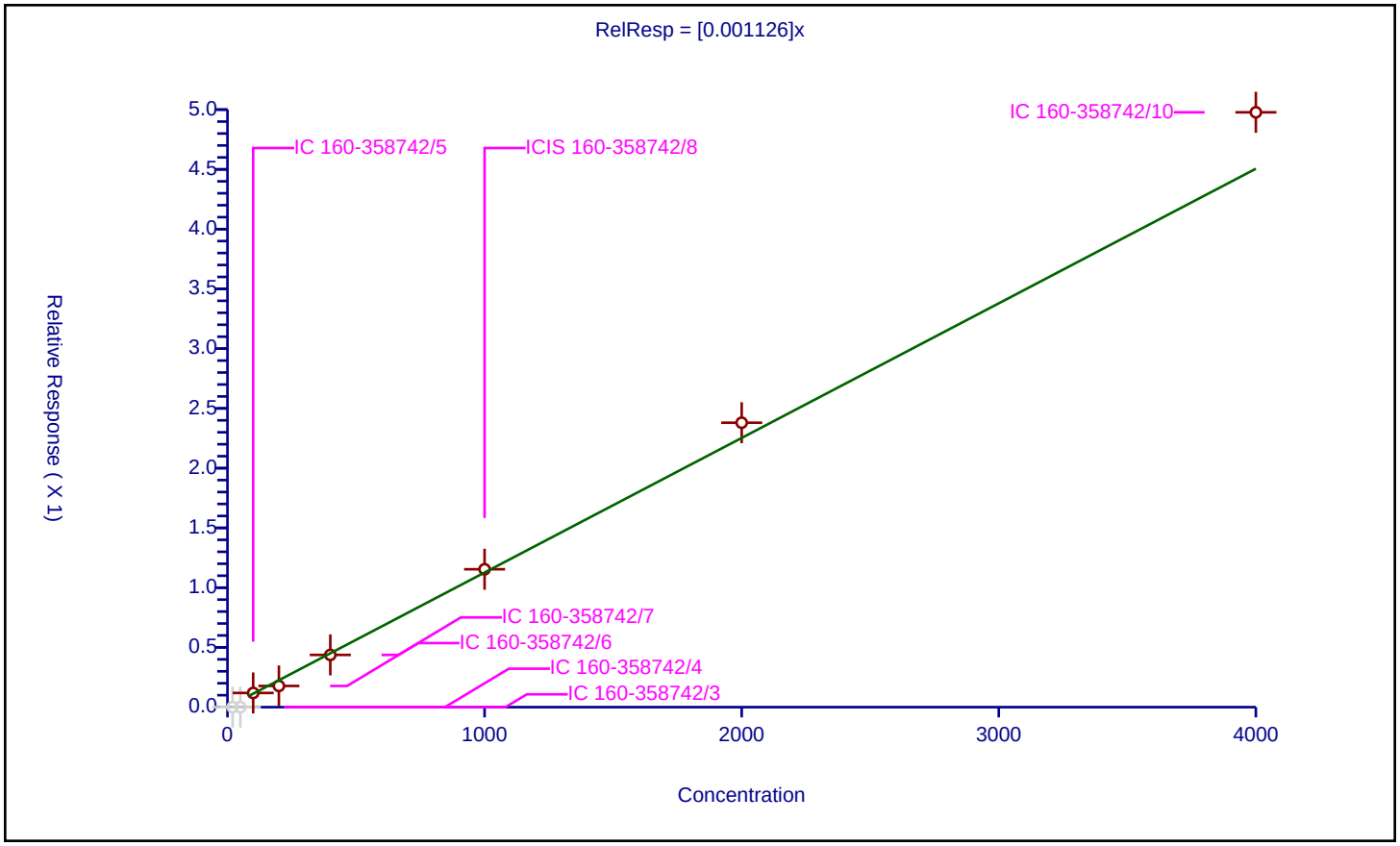
Curve Coefficients

Intercept:	0
Slope:	0.001126

Error Coefficients

Standard Error:	99600
Relative Standard Error:	11.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	20.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	50.0	0.0	50.0	1806431.0	0.0	N
3	IC 160-358742/5	100.0	0.118915	50.0	1826937.0	0.001189	Y
4	IC 160-358742/6	200.0	0.177555	50.0	1818587.0	0.000888	Y
5	IC 160-358742/7	400.0	0.437261	50.0	1866848.0	0.001093	Y
6	ICIS 160-358742/8	1000.0	1.153895	50.0	1931588.0	0.001154	Y
7	IC 160-358742/9	2000.0	2.379982	50.0	1975204.0	0.00119	Y
8	IC 160-358742/10	4000.0	4.977267	50.0	1969866.0	0.001244	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

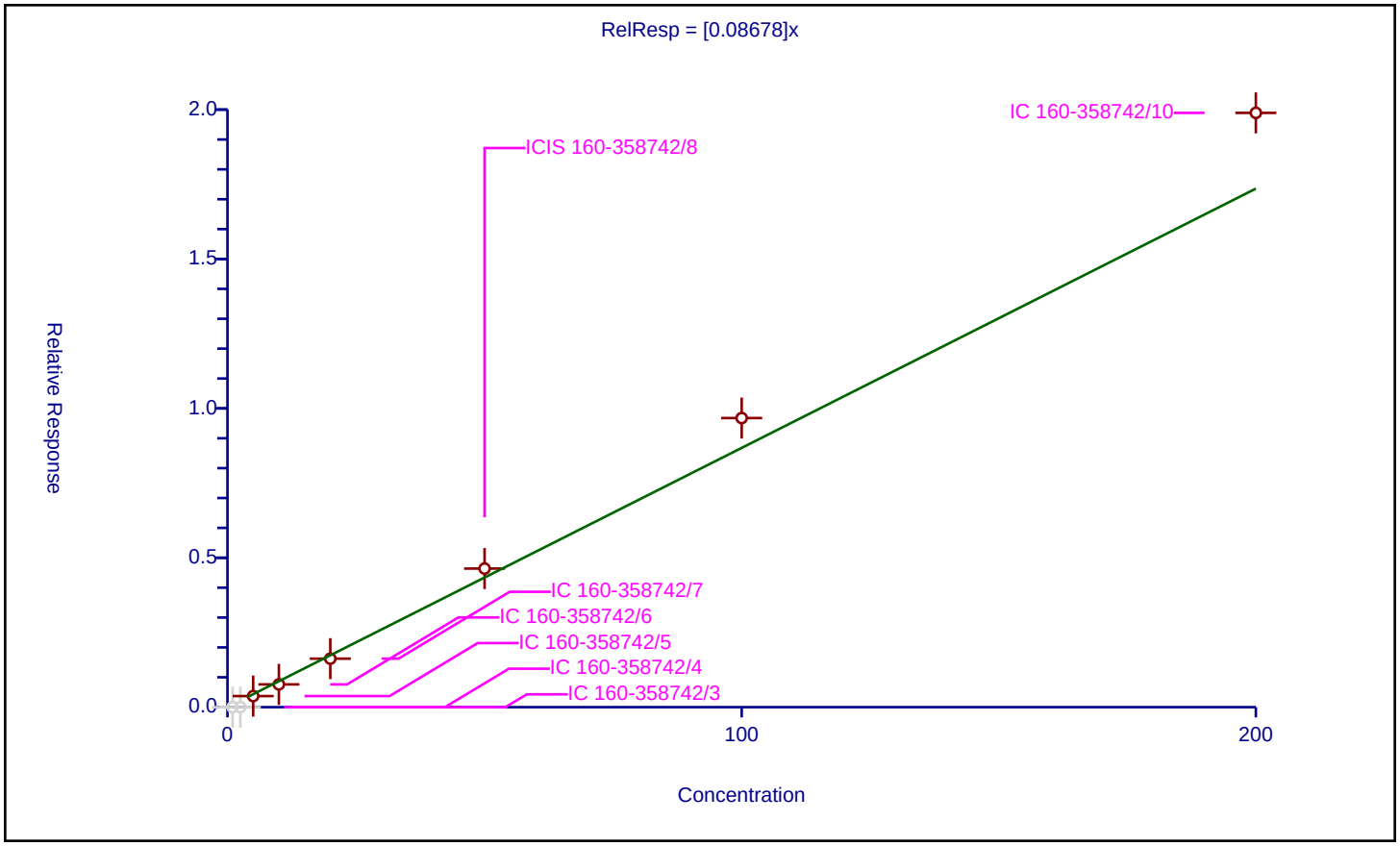
Curve Coefficients

Intercept:	0
Slope:	0.08678

Error Coefficients

Standard Error:	399000
Relative Standard Error:	12.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	1816365.0	0.0	N
2	IC 160-358742/4	2.5	0.0	50.0	1806431.0	0.0	N
3	IC 160-358742/5	5.0	0.371113	50.0	1826937.0	0.074223	Y
4	IC 160-358742/6	10.0	0.76268	50.0	1818587.0	0.076268	Y
5	IC 160-358742/7	20.0	1.623539	50.0	1866848.0	0.081177	Y
6	ICIS 160-358742/8	50.0	4.63924	50.0	1931588.0	0.092785	Y
7	IC 160-358742/9	100.0	9.676216	50.0	1975204.0	0.096762	Y
8	IC 160-358742/10	200.0	19.890388	50.0	1969866.0	0.099452	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

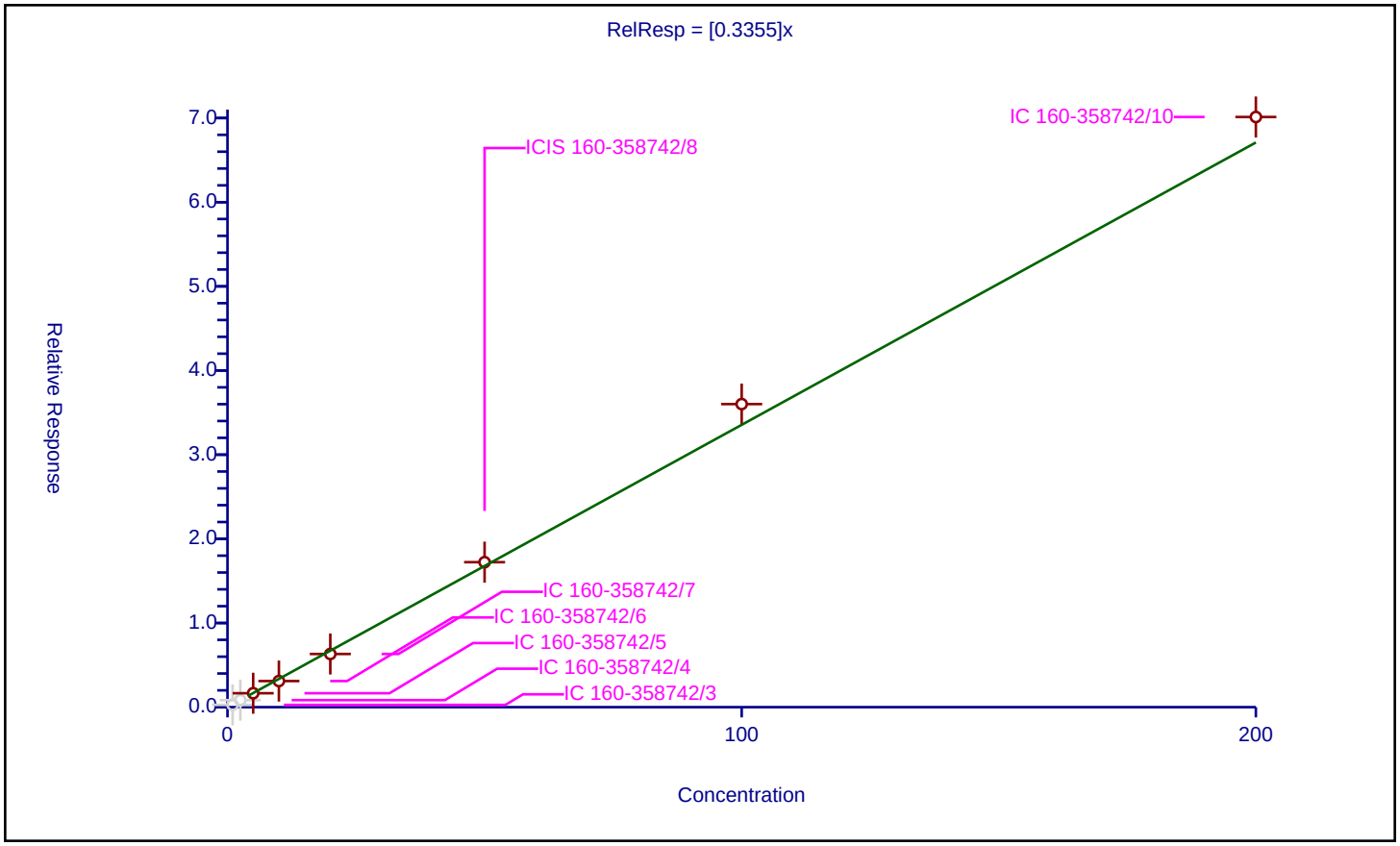
Curve Coefficients

Intercept:	0
Slope:	0.3355

Error Coefficients

Standard Error:	1430000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.271834	50.0	1816365.0	0.271834	N
2	IC 160-358742/4	2.5	0.836816	50.0	1806431.0	0.334726	N
3	IC 160-358742/5	5.0	1.656242	50.0	1826937.0	0.331248	Y
4	IC 160-358742/6	10.0	3.103013	50.0	1818587.0	0.310301	Y
5	IC 160-358742/7	20.0	6.319984	50.0	1866848.0	0.315999	Y
6	ICIS 160-358742/8	50.0	17.225387	50.0	1931588.0	0.344508	Y
7	IC 160-358742/9	100.0	36.011496	50.0	1975204.0	0.360115	Y
8	IC 160-358742/10	200.0	70.121013	50.0	1969866.0	0.350605	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

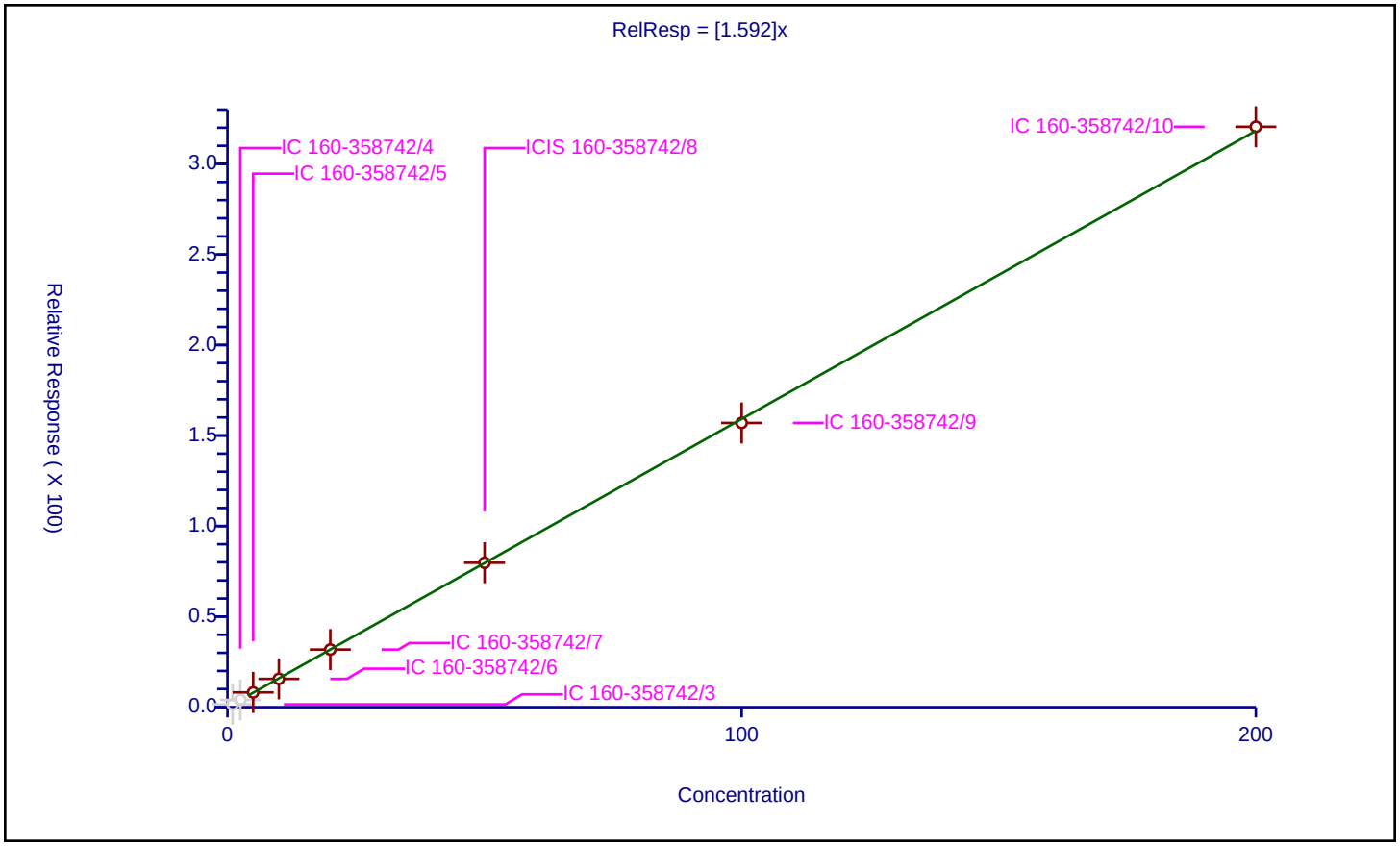
Curve Coefficients

Intercept:	0
Slope:	1.592

Error Coefficients

Standard Error:	3750000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	1.564296	50.0	1080614.0	1.564296	N
2	IC 160-358742/4	2.5	3.995994	50.0	1071273.0	1.598397	N
3	IC 160-358742/5	5.0	8.144322	50.0	1093627.0	1.628864	Y
4	IC 160-358742/6	10.0	15.622007	50.0	1083734.0	1.562201	Y
5	IC 160-358742/7	20.0	31.822061	50.0	1099074.0	1.591103	Y
6	ICIS 160-358742/8	50.0	79.758945	50.0	1151232.0	1.595179	Y
7	IC 160-358742/9	100.0	156.962032	50.0	1157514.0	1.56962	Y
8	IC 160-358742/10	200.0	320.517283	50.0	1136186.0	1.602586	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

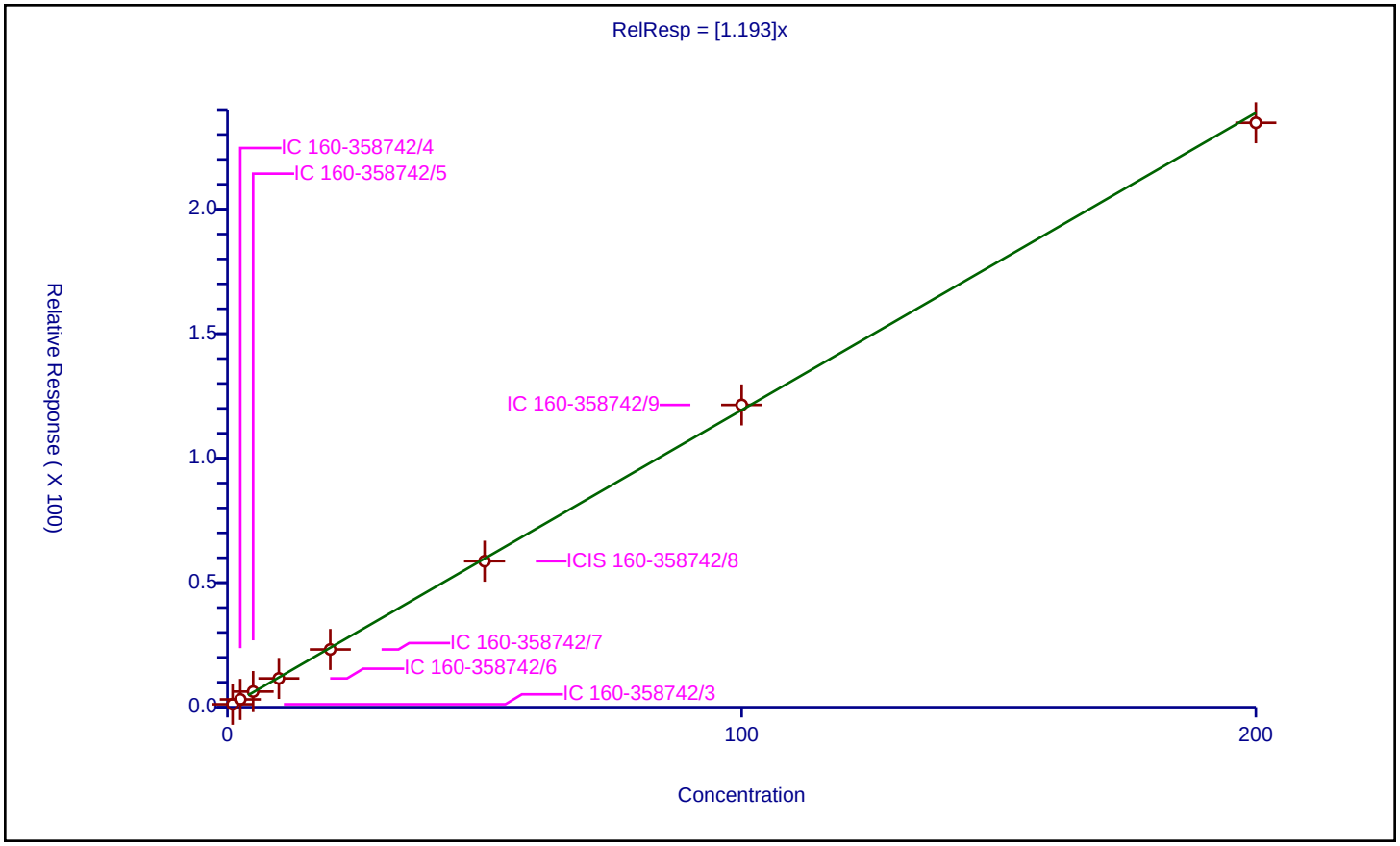
Curve Coefficients

Intercept:	0
Slope:	1.193

Error Coefficients

Standard Error:	2350000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	1.173685	50.0	1080614.0	1.173685	Y
2	IC 160-358742/4	2.5	3.114426	50.0	1071273.0	1.24577	Y
3	IC 160-358742/5	5.0	6.268911	50.0	1093627.0	1.253782	Y
4	IC 160-358742/6	10.0	11.547483	50.0	1083734.0	1.154748	Y
5	IC 160-358742/7	20.0	23.181151	50.0	1099074.0	1.159058	Y
6	ICIS 160-358742/8	50.0	58.625629	50.0	1151232.0	1.172513	Y
7	IC 160-358742/9	100.0	121.403067	50.0	1157514.0	1.214031	Y
8	IC 160-358742/10	200.0	234.717335	50.0	1136186.0	1.173587	Y



Calibration / 2-Nitropropane

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

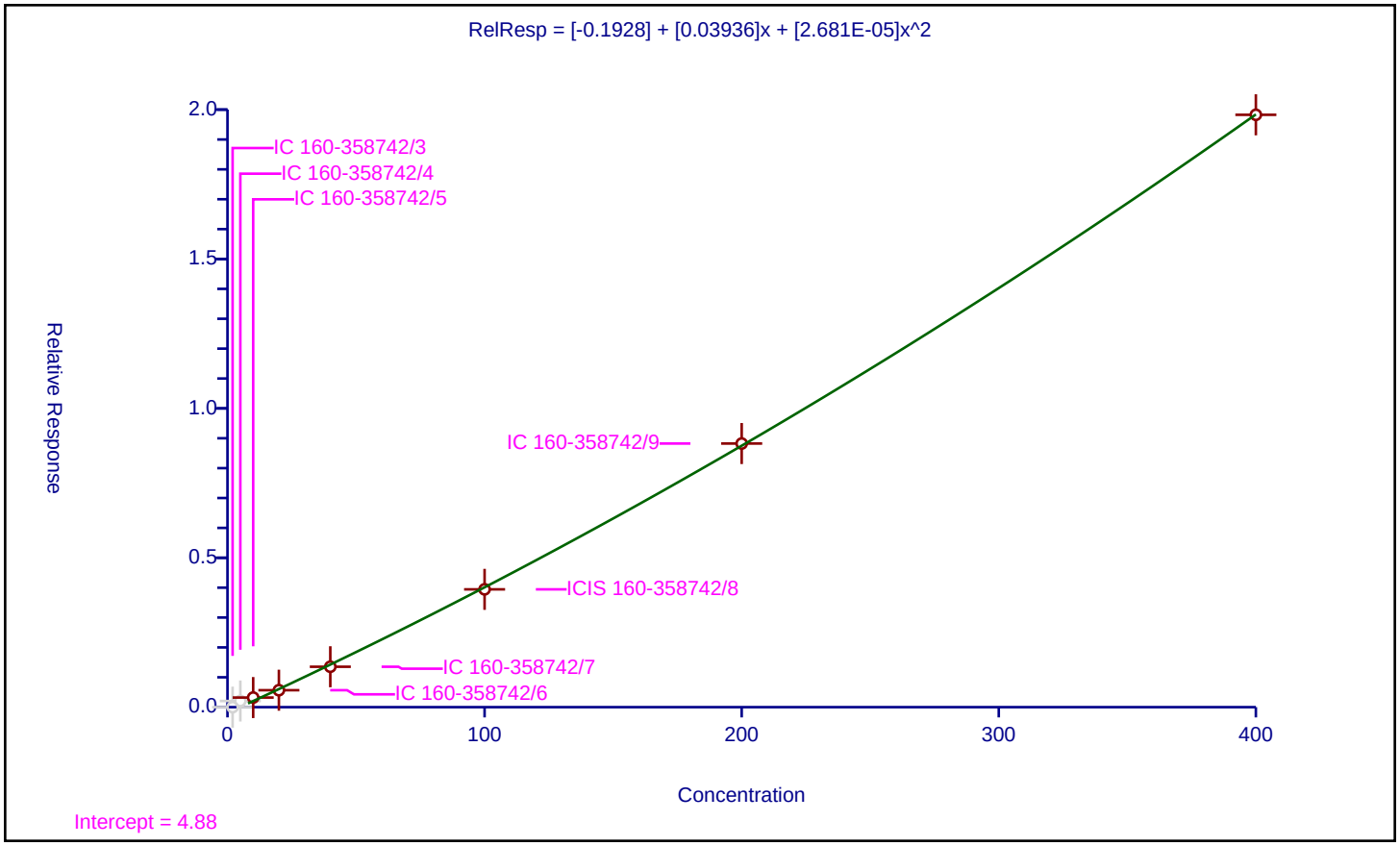
Curve Coefficients

Intercept:	-0.1928
Slope:	0.03936
Second Order:	2.681E-05

Error Coefficients

Standard Error:	291000
Relative Standard Error:	17.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	2.0	0.0	50.0	1080614.0	0.0	N
2	IC 160-358742/4	5.0	0.206763	50.0	1071273.0	0.041353	N
3	IC 160-358742/5	10.0	0.321225	50.0	1093627.0	0.032122	Y
4	IC 160-358742/6	20.0	0.567575	50.0	1083734.0	0.028379	Y
5	IC 160-358742/7	40.0	1.352957	50.0	1099074.0	0.033824	Y
6	ICIS 160-358742/8	100.0	3.94308	50.0	1151232.0	0.039431	Y
7	IC 160-358742/9	200.0	8.823392	50.0	1157514.0	0.044117	Y
8	IC 160-358742/10	400.0	19.826287	50.0	1136186.0	0.049566	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

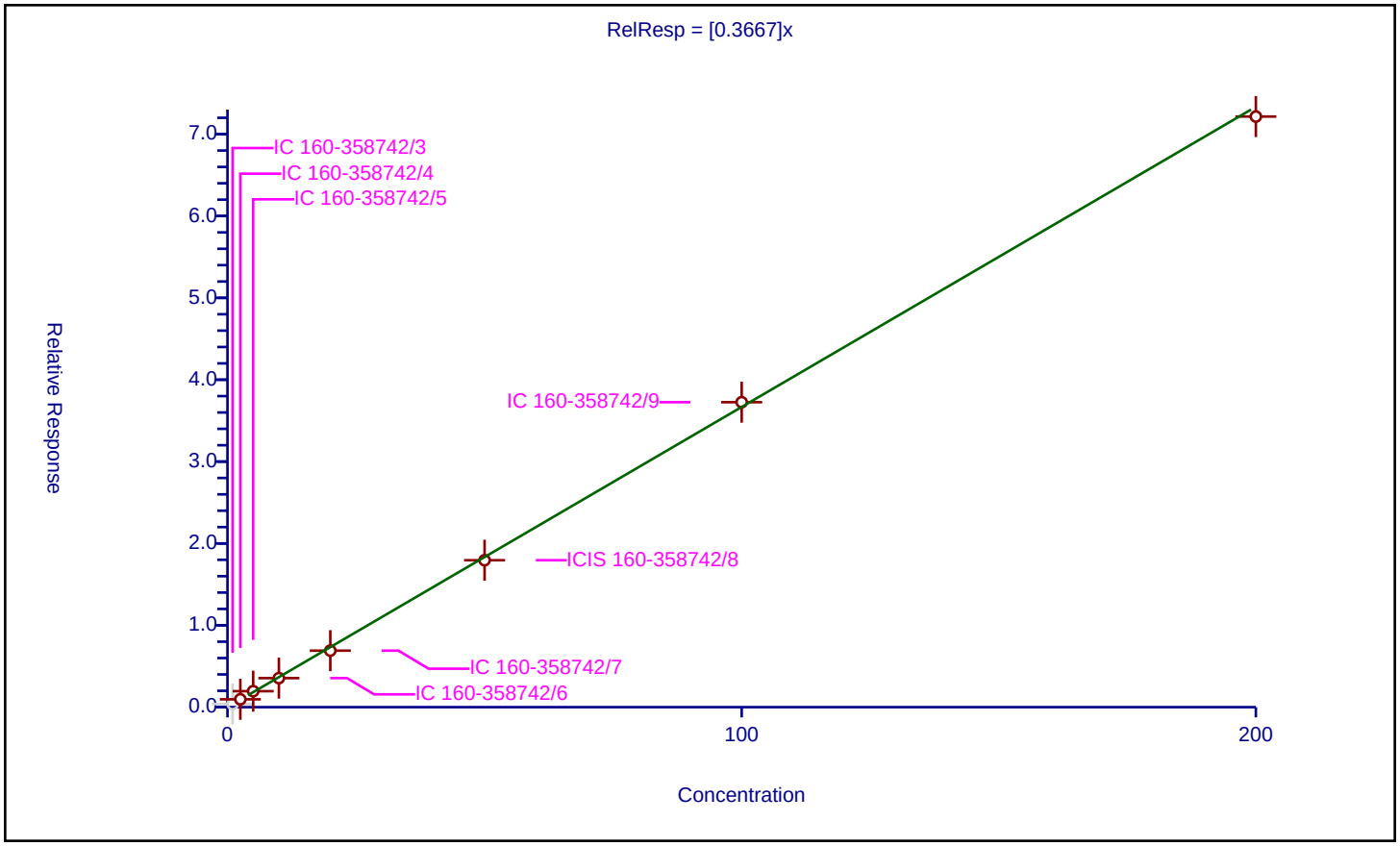
Curve Coefficients

Intercept:	0
Slope:	0.3667

Error Coefficients

Standard Error:	778000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.378766	50.0	1080614.0	0.378766	N
2	IC 160-358742/4	2.5	0.959699	50.0	1071273.0	0.38388	Y
3	IC 160-358742/5	5.0	1.954185	50.0	1093627.0	0.390837	Y
4	IC 160-358742/6	10.0	3.547872	50.0	1083734.0	0.354787	Y
5	IC 160-358742/7	20.0	6.905177	50.0	1099074.0	0.345259	Y
6	ICIS 160-358742/8	50.0	17.9509	50.0	1151232.0	0.359018	Y
7	IC 160-358742/9	100.0	37.254495	50.0	1157514.0	0.372545	Y
8	IC 160-358742/10	200.0	72.152095	50.0	1136186.0	0.36076	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

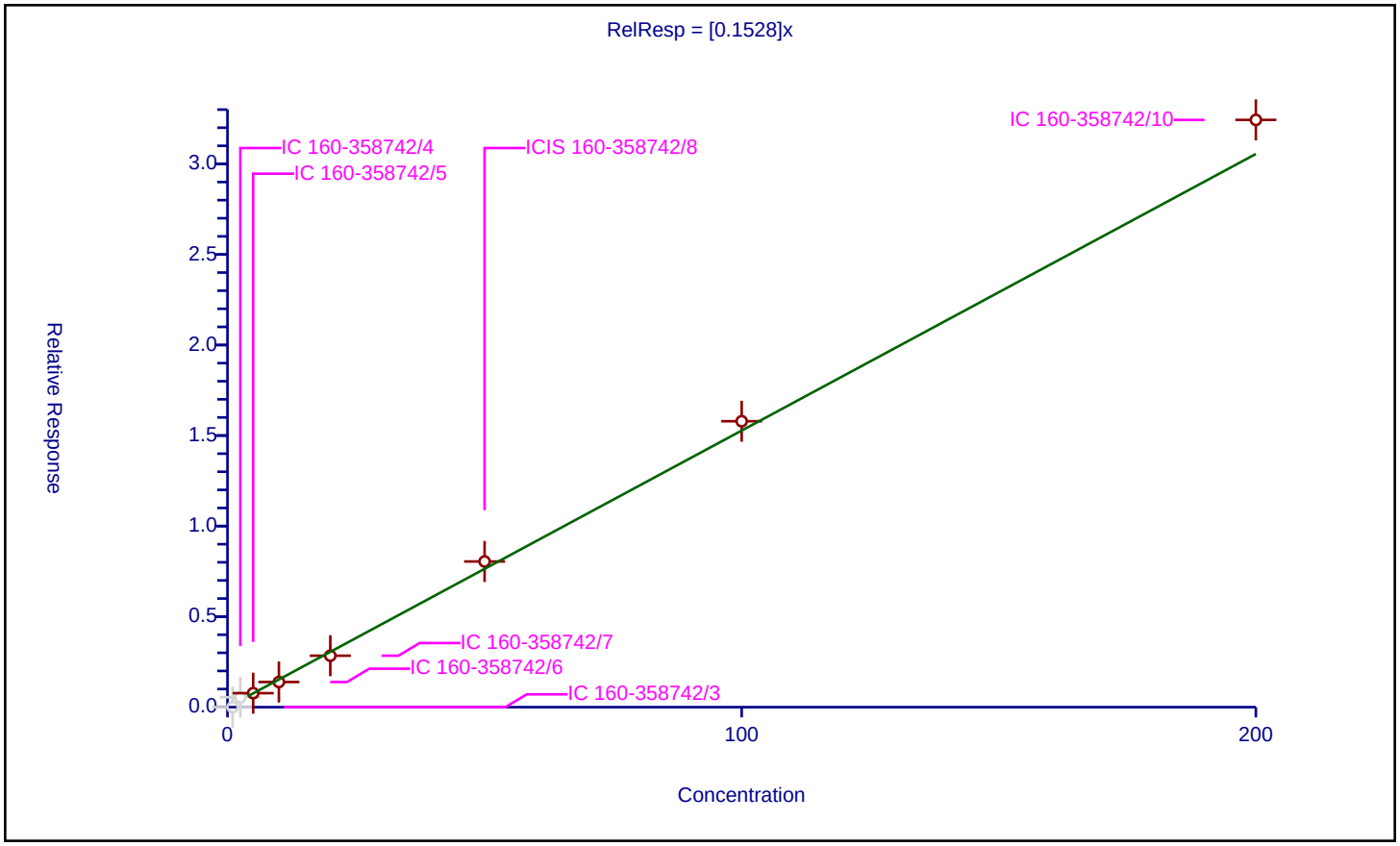
Curve Coefficients

Intercept:	0
Slope:	0.1528

Error Coefficients

Standard Error:	378000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	1080614.0	0.0	N
2	IC 160-358742/4	2.5	0.547433	50.0	1071273.0	0.218973	N
3	IC 160-358742/5	5.0	0.772475	50.0	1093627.0	0.154495	Y
4	IC 160-358742/6	10.0	1.389548	50.0	1083734.0	0.138955	Y
5	IC 160-358742/7	20.0	2.841847	50.0	1099074.0	0.142092	Y
6	ICIS 160-358742/8	50.0	8.04512	50.0	1151232.0	0.160902	Y
7	IC 160-358742/9	100.0	15.790695	50.0	1157514.0	0.157907	Y
8	IC 160-358742/10	200.0	32.432014	50.0	1136186.0	0.16216	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

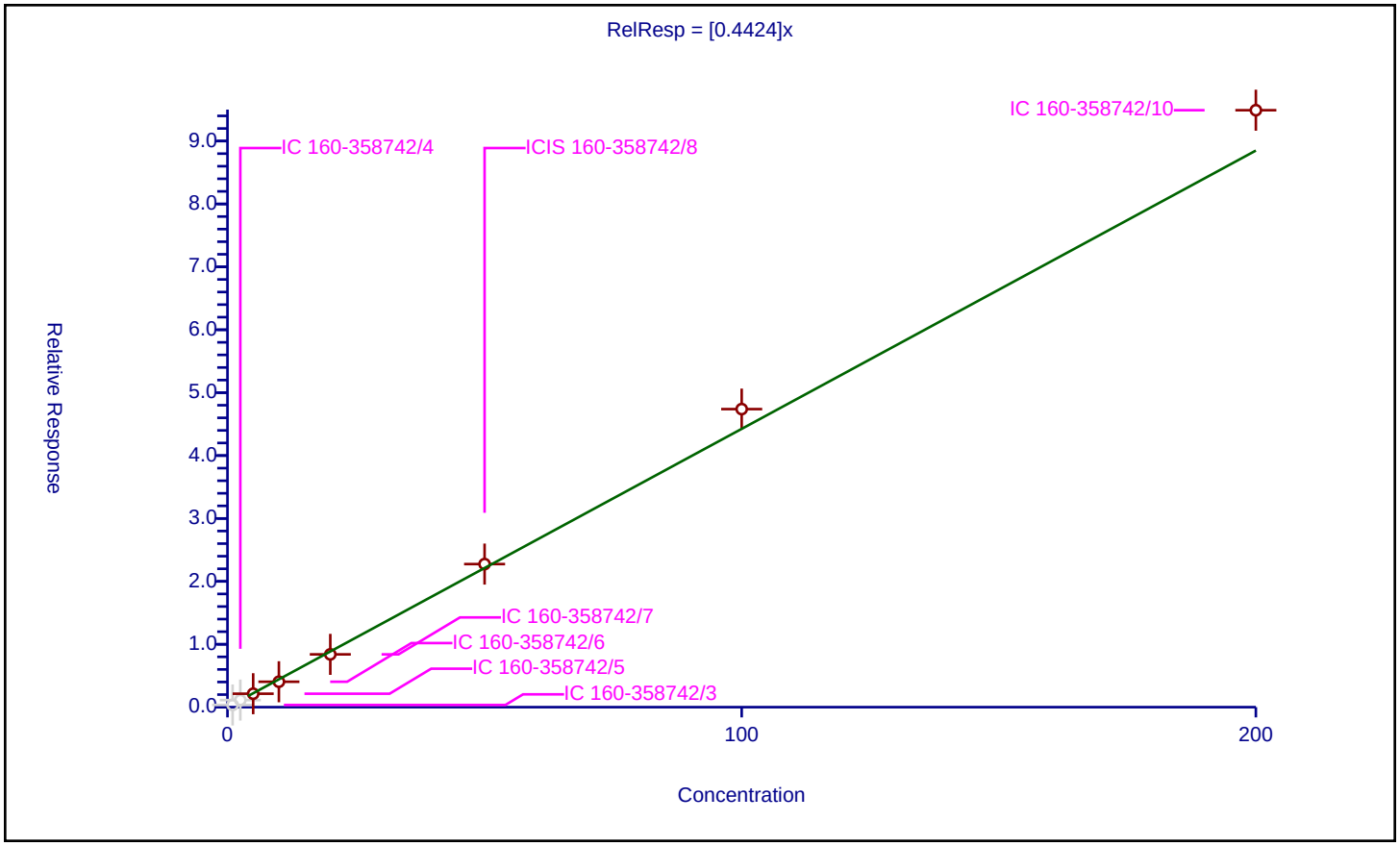
Curve Coefficients

Intercept:	0
Slope:	0.4424

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.354289	50.0	1080614.0	0.354289	N
2	IC 160-358742/4	2.5	1.128704	50.0	1071273.0	0.451482	N
3	IC 160-358742/5	5.0	2.1372	50.0	1093627.0	0.42744	Y
4	IC 160-358742/6	10.0	4.042551	50.0	1083734.0	0.404255	Y
5	IC 160-358742/7	20.0	8.391928	50.0	1099074.0	0.419596	Y
6	ICIS 160-358742/8	50.0	22.748977	50.0	1151232.0	0.45498	Y
7	IC 160-358742/9	100.0	47.386684	50.0	1157514.0	0.473867	Y
8	IC 160-358742/10	200.0	94.905324	50.0	1136186.0	0.474527	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

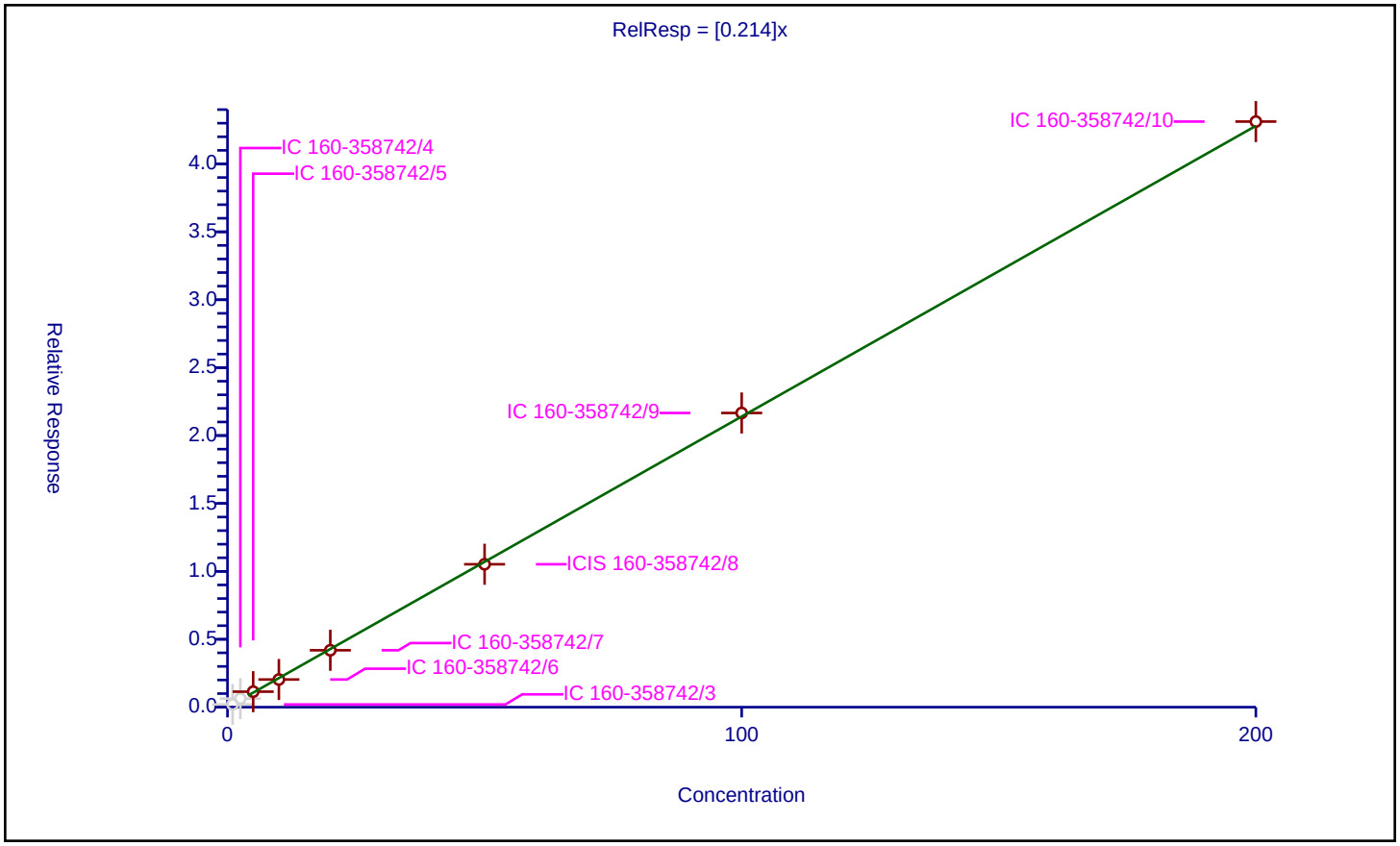
Curve Coefficients

Intercept:	0
Slope:	0.214

Error Coefficients

Standard Error:	506000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.199609	50.0	1080614.0	0.199609	N
2	IC 160-358742/4	2.5	0.632052	50.0	1071273.0	0.252821	N
3	IC 160-358742/5	5.0	1.141614	50.0	1093627.0	0.228323	Y
4	IC 160-358742/6	10.0	2.036062	50.0	1083734.0	0.203606	Y
5	IC 160-358742/7	20.0	4.189709	50.0	1099074.0	0.209485	Y
6	ICIS 160-358742/8	50.0	10.522857	50.0	1151232.0	0.210457	Y
7	IC 160-358742/9	100.0	21.662459	50.0	1157514.0	0.216625	Y
8	IC 160-358742/10	200.0	43.119216	50.0	1136186.0	0.215596	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

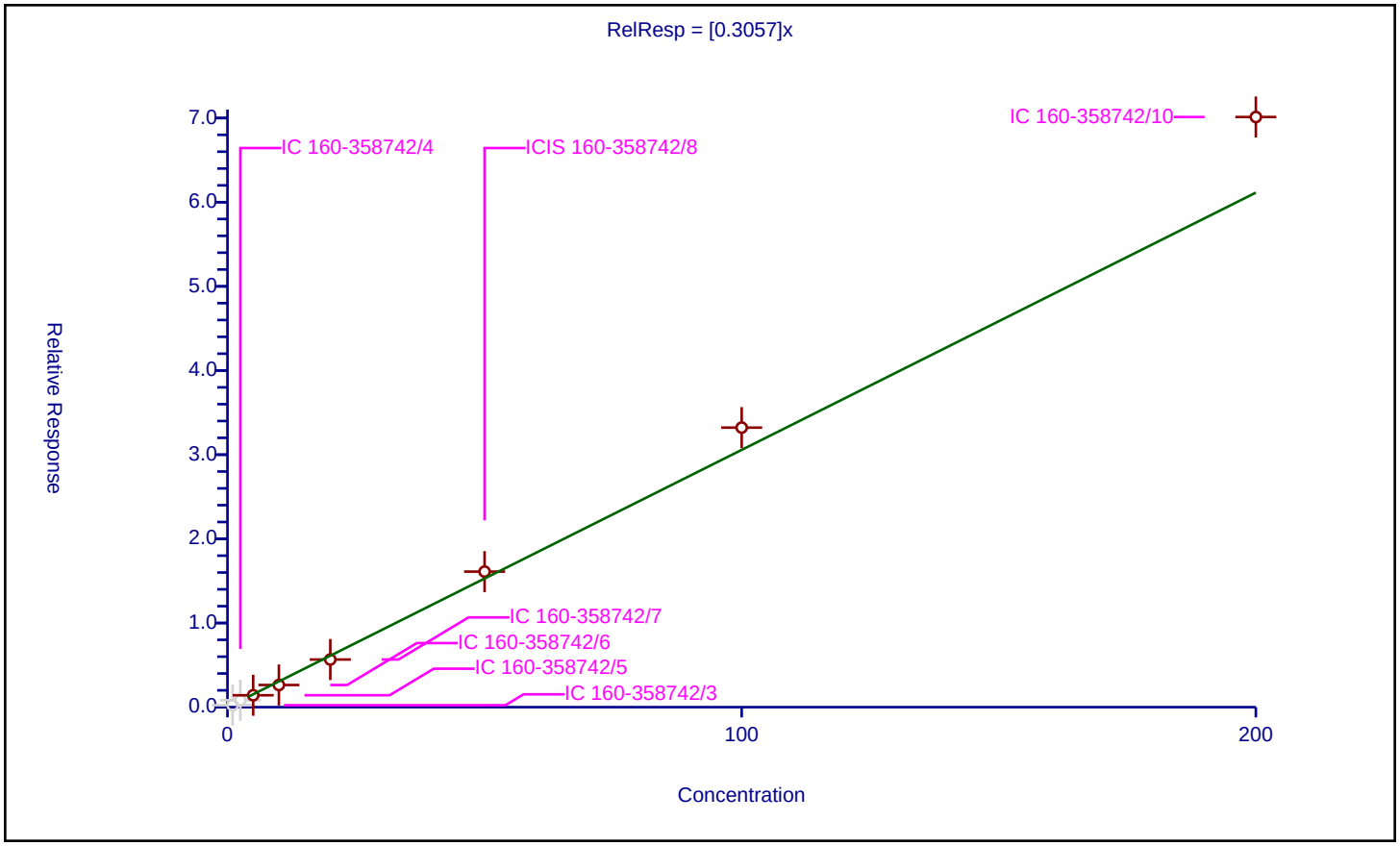
Curve Coefficients

Intercept:	0
Slope:	0.3057

Error Coefficients

Standard Error:	811000
Relative Standard Error:	11.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.231951	50.0	1080614.0	0.231951	N
2	IC 160-358742/4	2.5	0.821733	50.0	1071273.0	0.328693	N
3	IC 160-358742/5	5.0	1.413873	50.0	1093627.0	0.282775	Y
4	IC 160-358742/6	10.0	2.633857	50.0	1083734.0	0.263386	Y
5	IC 160-358742/7	20.0	5.661448	50.0	1099074.0	0.283072	Y
6	ICIS 160-358742/8	50.0	16.106832	50.0	1151232.0	0.322137	Y
7	IC 160-358742/9	100.0	33.21679	50.0	1157514.0	0.332168	Y
8	IC 160-358742/10	200.0	70.119989	50.0	1136186.0	0.3506	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

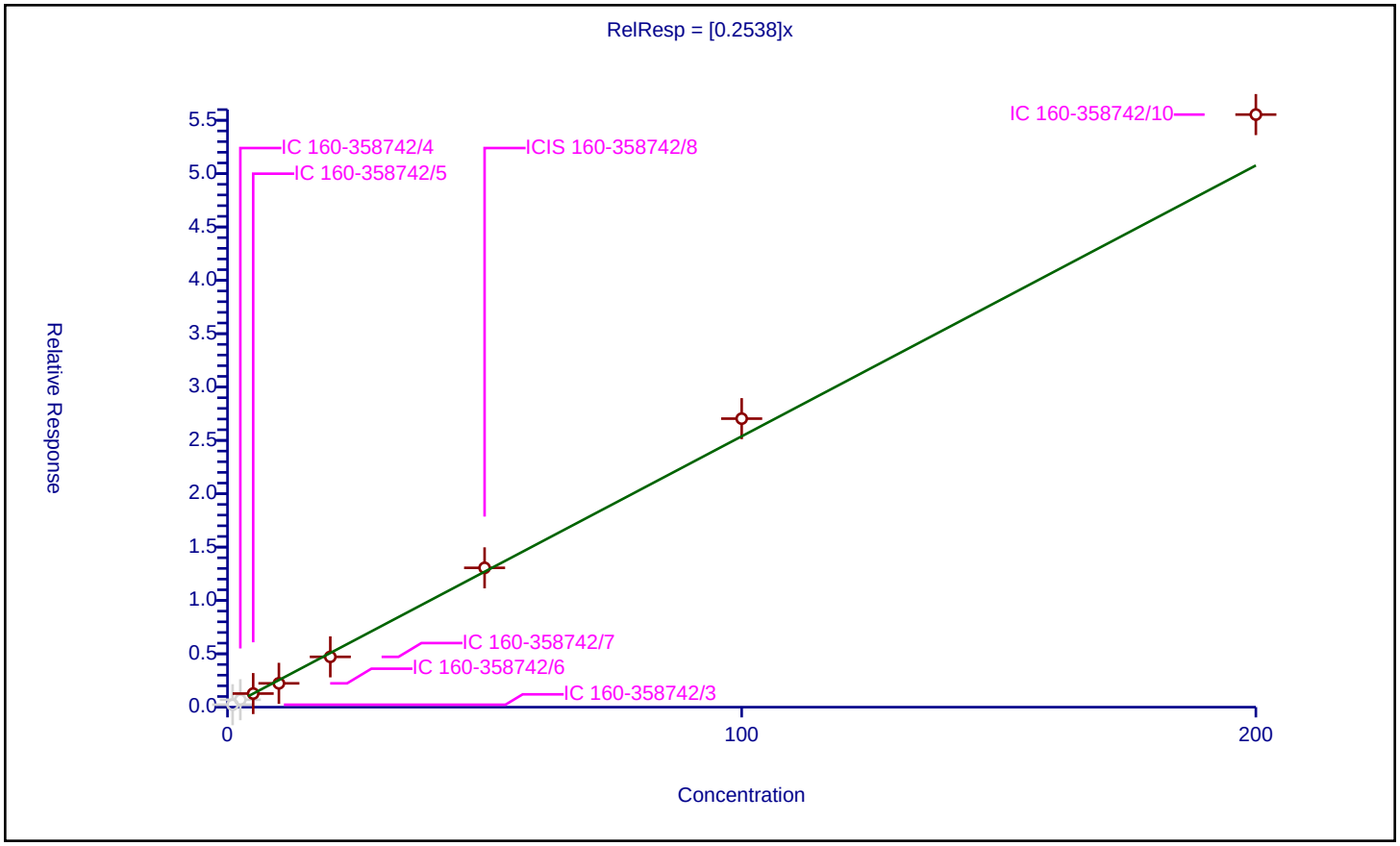
Curve Coefficients

Intercept:	0
Slope:	0.2538

Error Coefficients

Standard Error:	646000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.231165	50.0	1080614.0	0.231165	N
2	IC 160-358742/4	2.5	0.697395	50.0	1071273.0	0.278958	N
3	IC 160-358742/5	5.0	1.273423	50.0	1093627.0	0.254685	Y
4	IC 160-358742/6	10.0	2.23362	50.0	1083734.0	0.223362	Y
5	IC 160-358742/7	20.0	4.715834	50.0	1099074.0	0.235792	Y
6	ICIS 160-358742/8	50.0	13.056969	50.0	1151232.0	0.261139	Y
7	IC 160-358742/9	100.0	27.039716	50.0	1157514.0	0.270397	Y
8	IC 160-358742/10	200.0	55.534085	50.0	1136186.0	0.27767	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

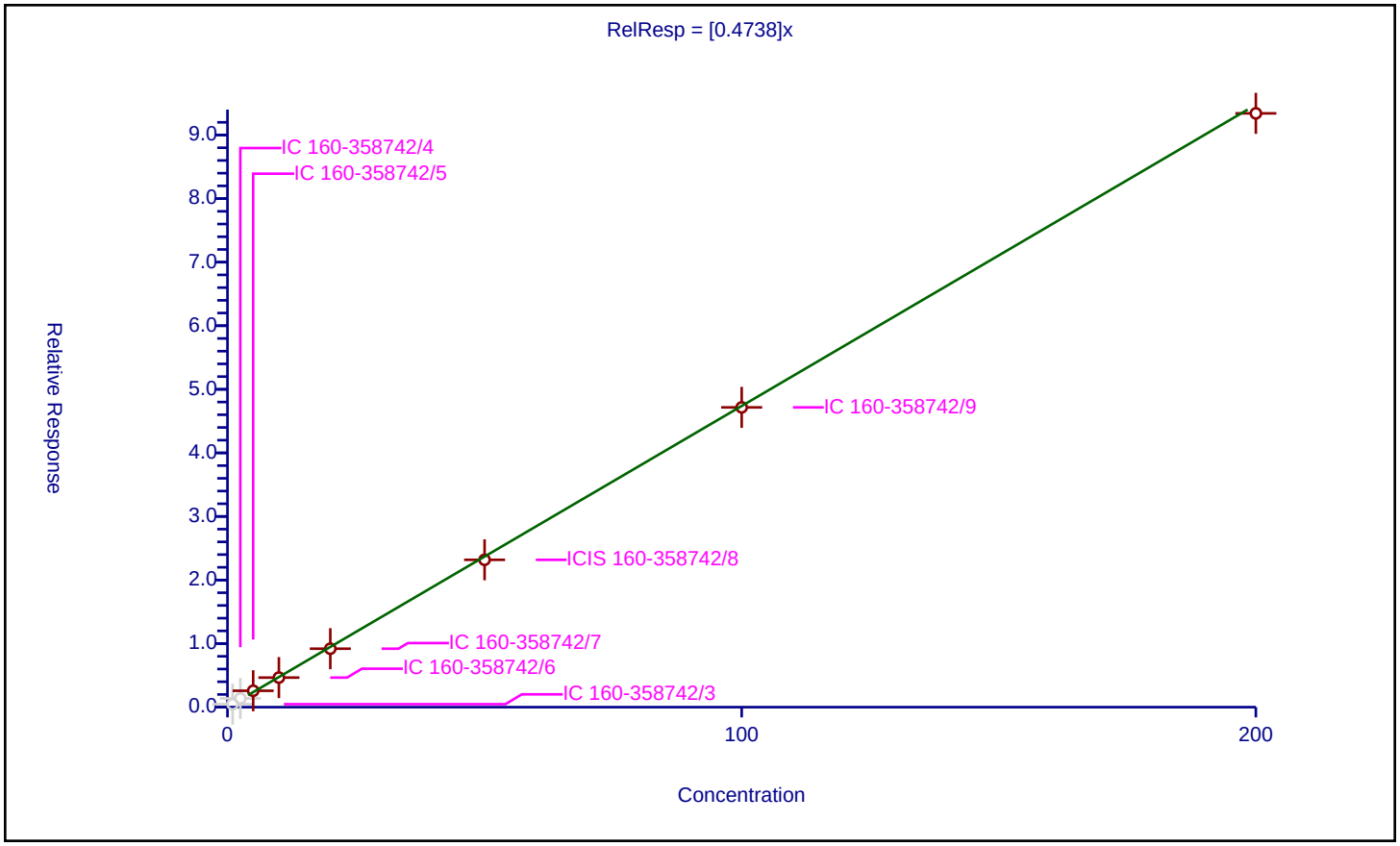
Curve Coefficients

Intercept:	0
Slope:	0.4738

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.470149	50.0	1080614.0	0.470149	N
2	IC 160-358742/4	2.5	1.3771	50.0	1071273.0	0.55084	N
3	IC 160-358742/5	5.0	2.577021	50.0	1093627.0	0.515404	Y
4	IC 160-358742/6	10.0	4.652479	50.0	1083734.0	0.465248	Y
5	IC 160-358742/7	20.0	9.197743	50.0	1099074.0	0.459887	Y
6	ICIS 160-358742/8	50.0	23.17982	50.0	1151232.0	0.463596	Y
7	IC 160-358742/9	100.0	47.15714	50.0	1157514.0	0.471571	Y
8	IC 160-358742/10	200.0	93.410102	50.0	1136186.0	0.467051	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

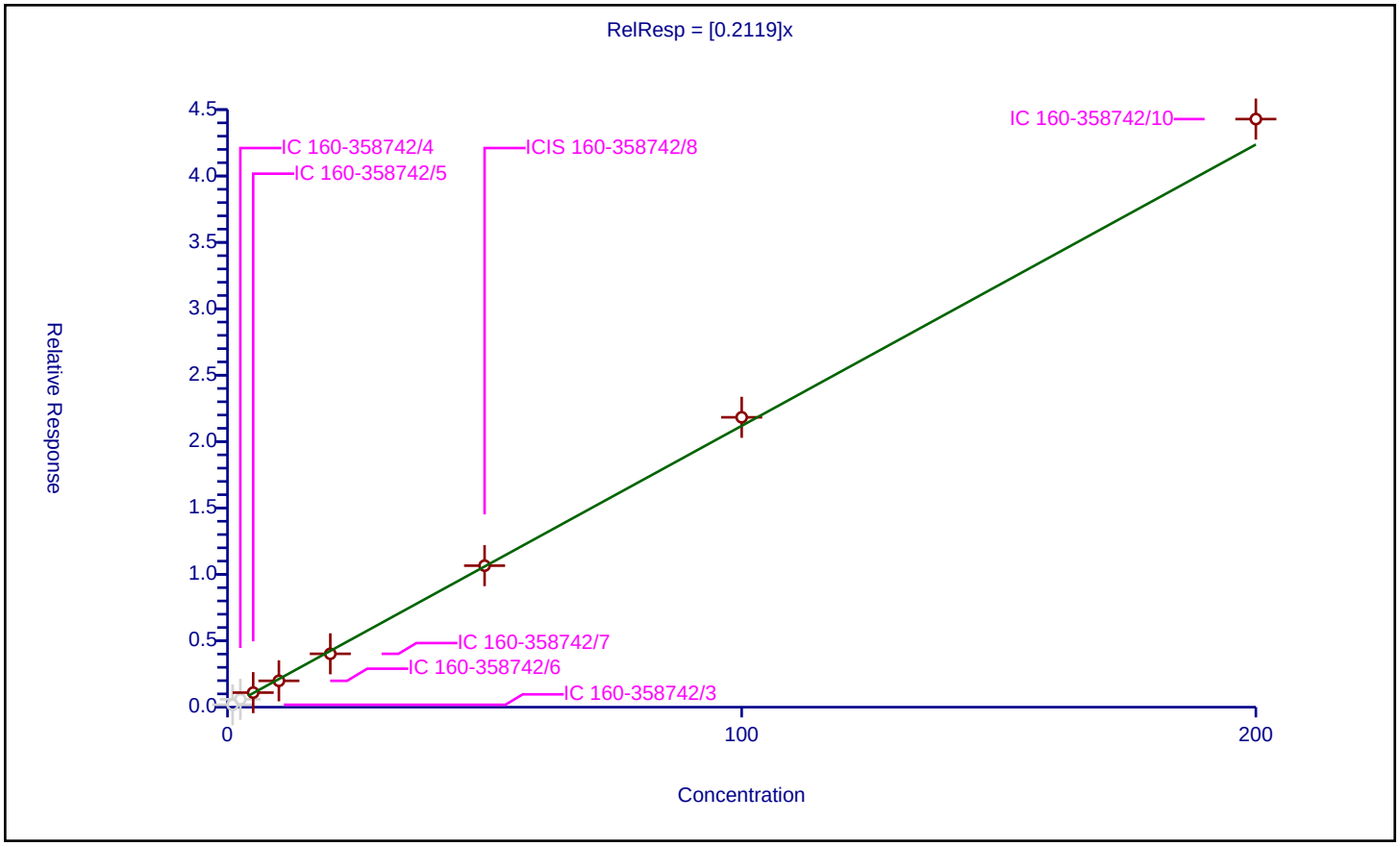
Curve Coefficients

Intercept:	0
Slope:	0.2119

Error Coefficients

Standard Error:	517000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.182257	50.0	1080614.0	0.182257	N
2	IC 160-358742/4	2.5	0.593219	50.0	1071273.0	0.237288	N
3	IC 160-358742/5	5.0	1.095712	50.0	1093627.0	0.219142	Y
4	IC 160-358742/6	10.0	1.982913	50.0	1083734.0	0.198291	Y
5	IC 160-358742/7	20.0	4.017973	50.0	1099074.0	0.200899	Y
6	ICIS 160-358742/8	50.0	10.655324	50.0	1151232.0	0.213106	Y
7	IC 160-358742/9	100.0	21.827598	50.0	1157514.0	0.218276	Y
8	IC 160-358742/10	200.0	44.286103	50.0	1136186.0	0.221431	Y



Calibration / n-Butyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

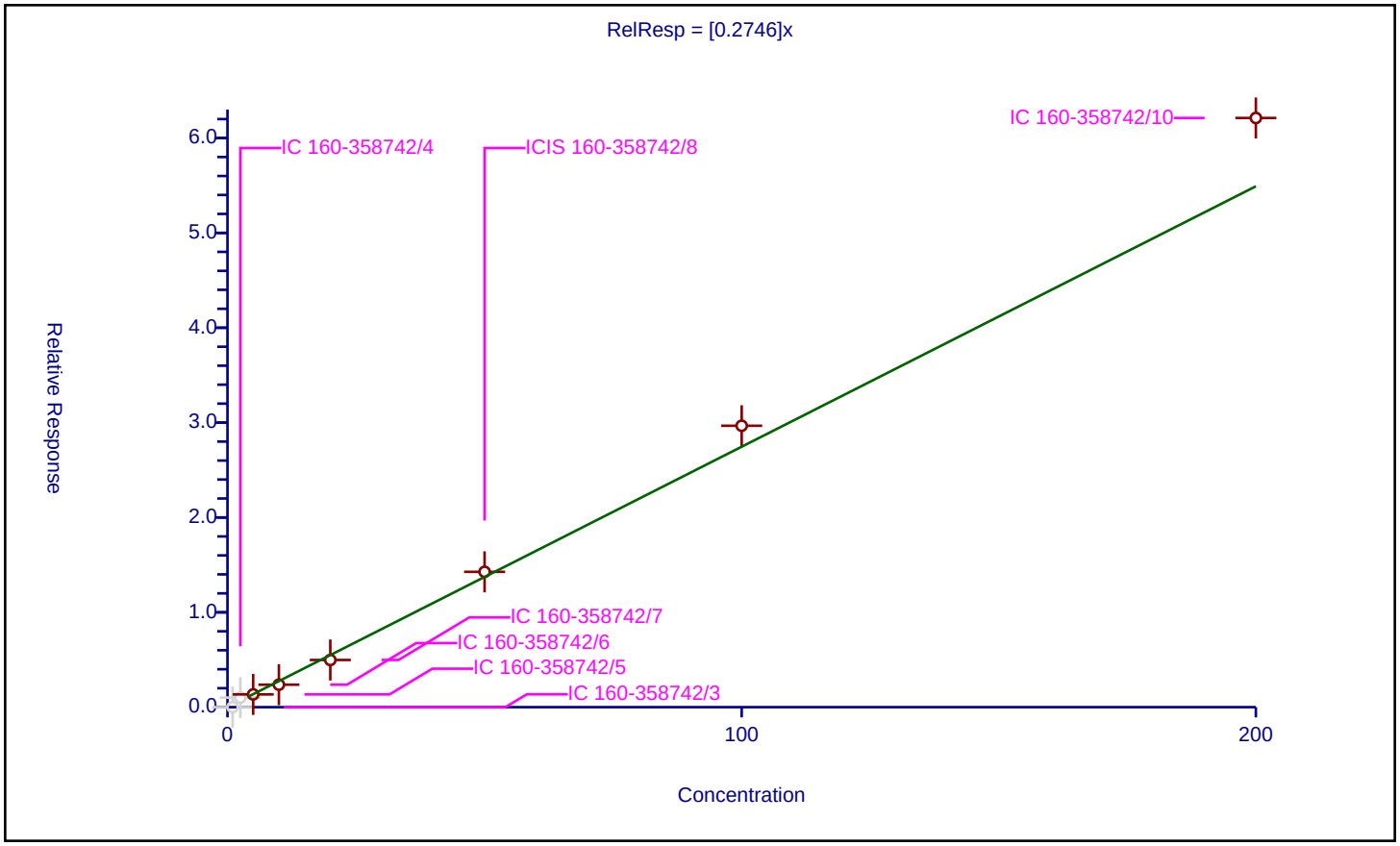
Curve Coefficients

Intercept:	0
Slope:	0.2746

Error Coefficients

Standard Error:	719000
Relative Standard Error:	10.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	1080614.0	0.0	N
2	IC 160-358742/4	2.5	1.00726	50.0	1071273.0	0.402904	N
3	IC 160-358742/5	5.0	1.345568	50.0	1093627.0	0.269114	Y
4	IC 160-358742/6	10.0	2.370231	50.0	1083734.0	0.237023	Y
5	IC 160-358742/7	20.0	4.973687	50.0	1099074.0	0.248684	Y
6	ICIS 160-358742/8	50.0	14.267802	50.0	1151232.0	0.285356	Y
7	IC 160-358742/9	100.0	29.668626	50.0	1157514.0	0.296686	Y
8	IC 160-358742/10	200.0	62.117646	50.0	1136186.0	0.310588	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

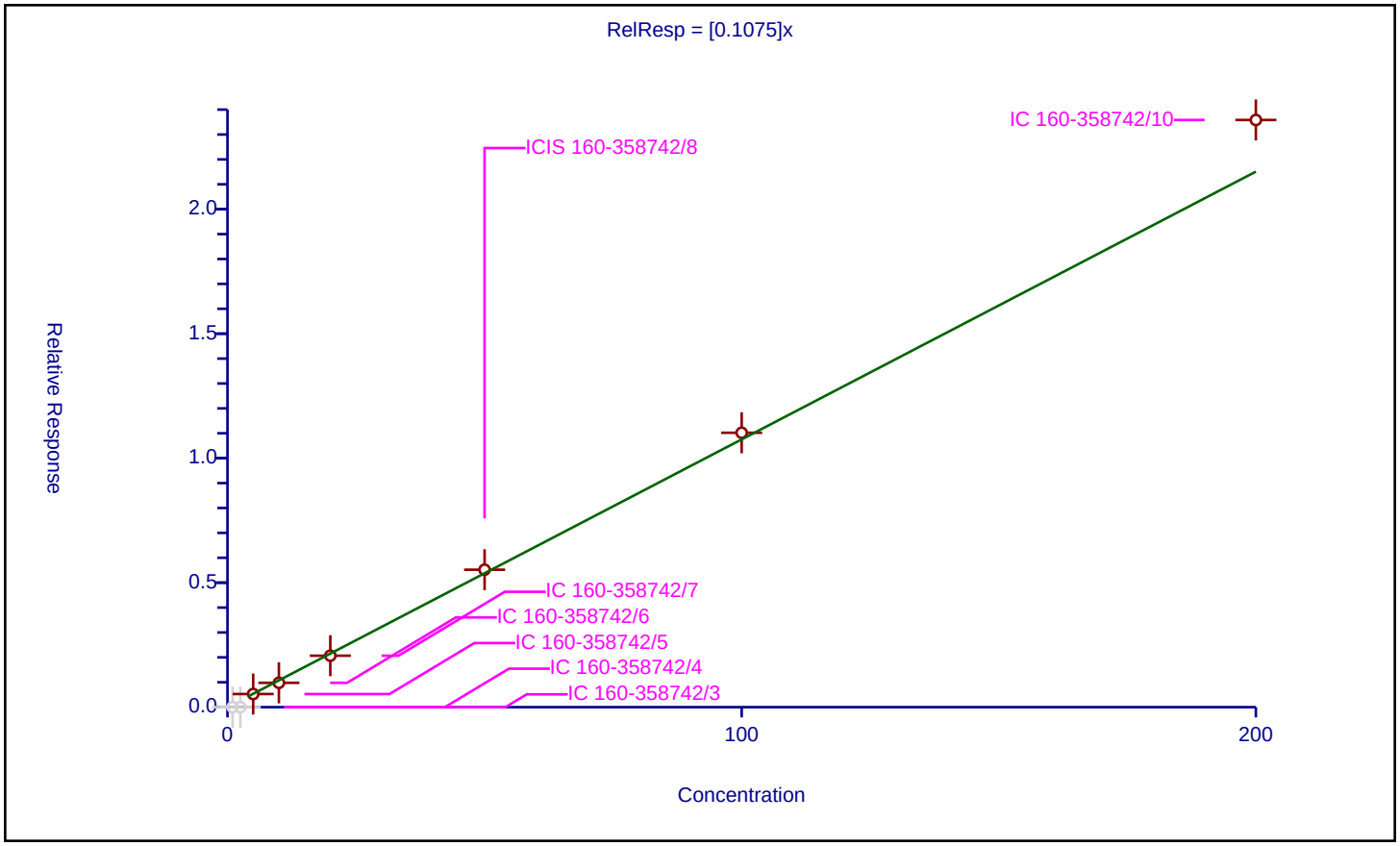
Curve Coefficients

Intercept:	0
Slope:	0.1075

Error Coefficients

Standard Error:	272000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	1080614.0	0.0	N
2	IC 160-358742/4	2.5	0.0	50.0	1071273.0	0.0	N
3	IC 160-358742/5	5.0	0.527831	50.0	1093627.0	0.105566	Y
4	IC 160-358742/6	10.0	0.9781	50.0	1083734.0	0.09781	Y
5	IC 160-358742/7	20.0	2.067468	50.0	1099074.0	0.103373	Y
6	ICIS 160-358742/8	50.0	5.52013	50.0	1151232.0	0.110403	Y
7	IC 160-358742/9	100.0	11.020644	50.0	1157514.0	0.110206	Y
8	IC 160-358742/10	200.0	23.583111	50.0	1136186.0	0.117916	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

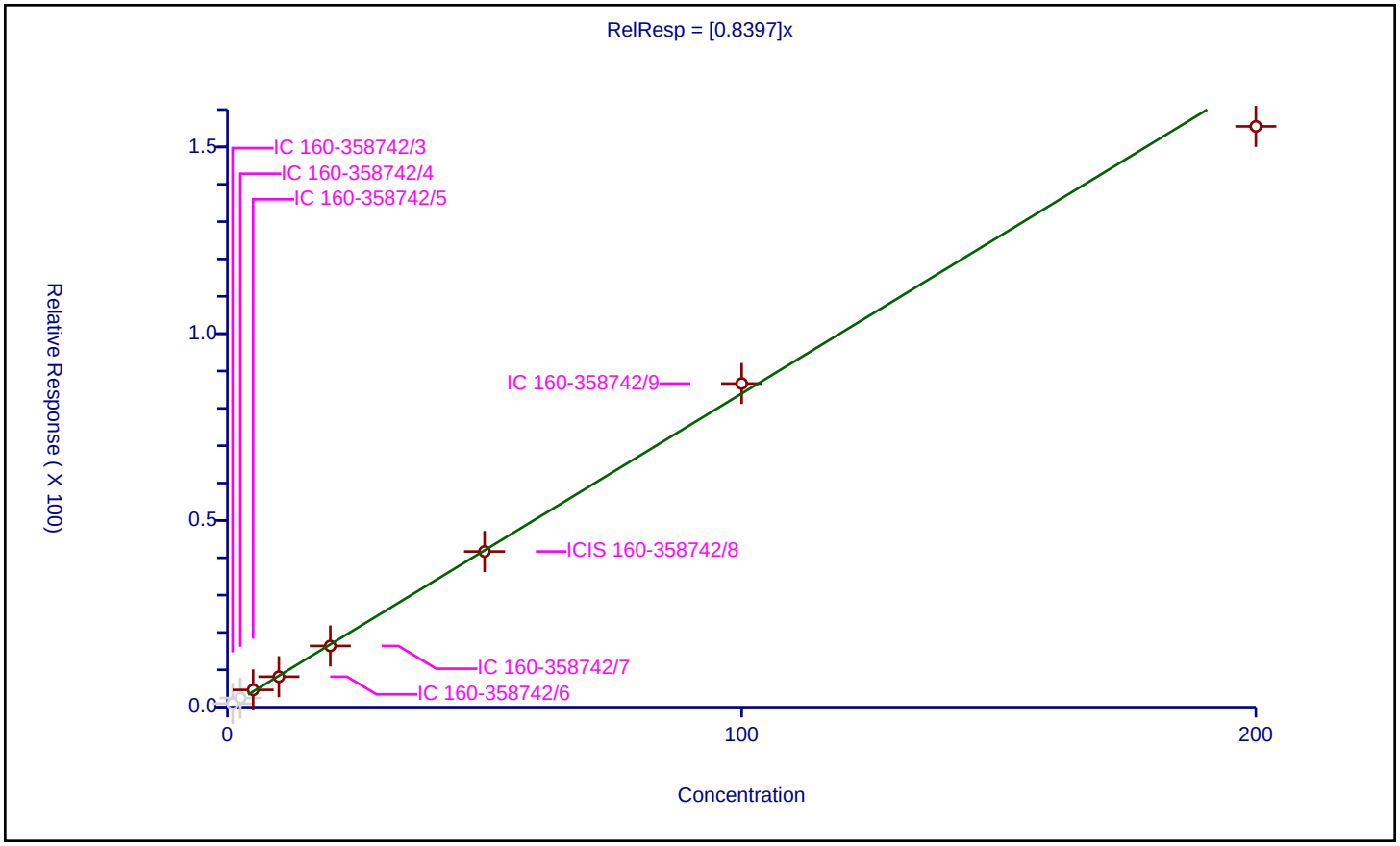
Curve Coefficients

Intercept:	0
Slope:	0.8397

Error Coefficients

Standard Error:	1880000
Relative Standard Error:	6.0
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.944556	50.0	1080614.0	0.944556	N
2	IC 160-358742/4	2.5	2.448396	50.0	1071273.0	0.979358	N
3	IC 160-358742/5	5.0	4.624566	50.0	1093627.0	0.924913	Y
4	IC 160-358742/6	10.0	8.161643	50.0	1083734.0	0.816164	Y
5	IC 160-358742/7	20.0	16.388705	50.0	1099074.0	0.819435	Y
6	ICIS 160-358742/8	50.0	41.689381	50.0	1151232.0	0.833788	Y
7	IC 160-358742/9	100.0	86.659168	50.0	1157514.0	0.866592	Y
8	IC 160-358742/10	200.0	155.51503	50.0	1136186.0	0.777575	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

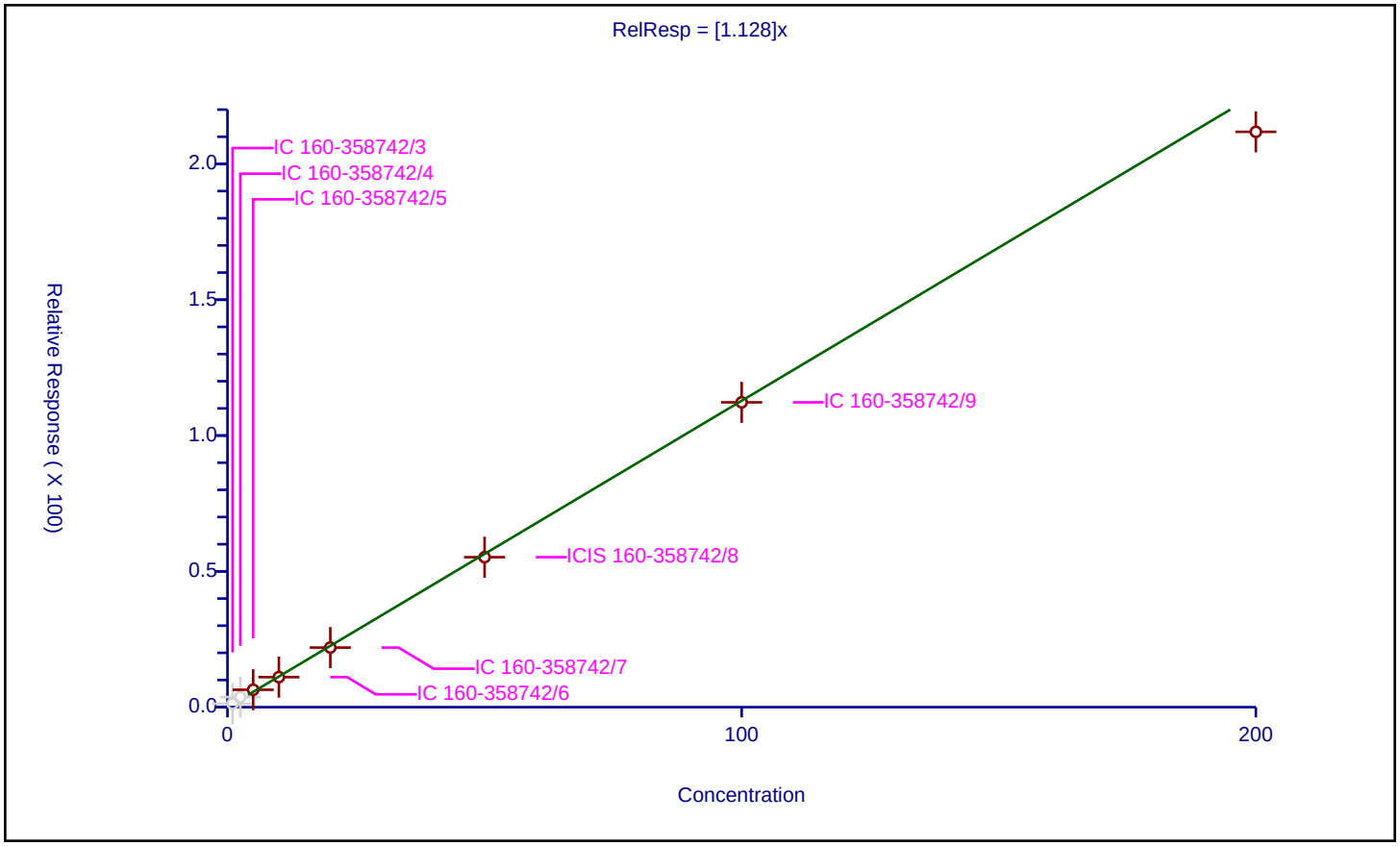
Curve Coefficients

Intercept:	0
Slope:	1.128

Error Coefficients

Standard Error:	2520000
Relative Standard Error:	6.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	1.272055	50.0	1080614.0	1.272055	N
2	IC 160-358742/4	2.5	3.716186	50.0	1071273.0	1.486475	N
3	IC 160-358742/5	5.0	6.39944	50.0	1093627.0	1.279888	Y
4	IC 160-358742/6	10.0	11.059956	50.0	1083734.0	1.105996	Y
5	IC 160-358742/7	20.0	21.93906	50.0	1099074.0	1.096953	Y
6	ICIS 160-358742/8	50.0	55.216716	50.0	1151232.0	1.104334	Y
7	IC 160-358742/9	100.0	112.231429	50.0	1157514.0	1.122314	Y
8	IC 160-358742/10	200.0	211.820336	50.0	1136186.0	1.059102	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

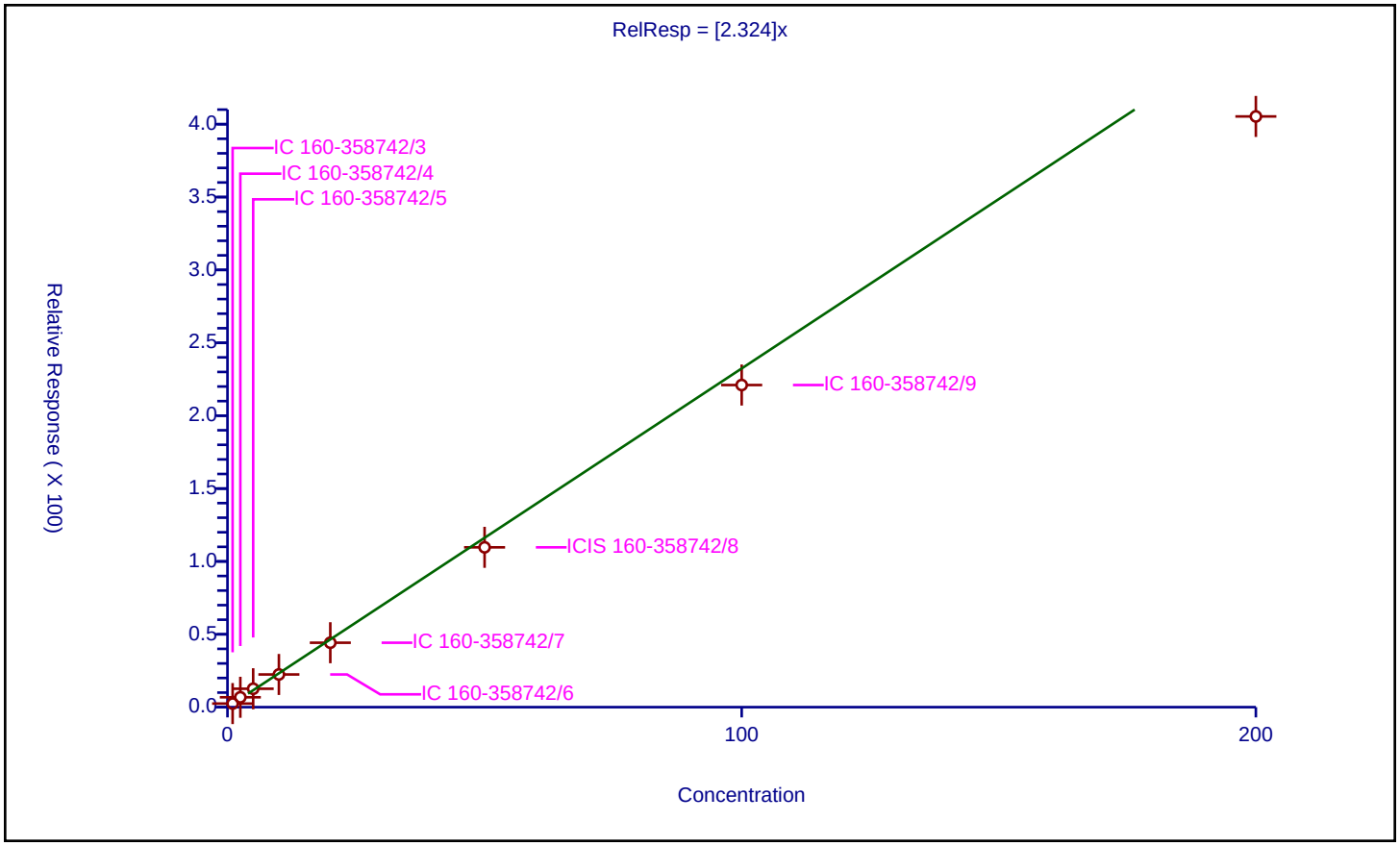
Curve Coefficients

Intercept:	0
Slope:	2.324

Error Coefficients

Standard Error:	4120000
Relative Standard Error:	9.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	2.465635	50.0	1080614.0	2.465635	Y
2	IC 160-358742/4	2.5	6.786599	50.0	1071273.0	2.714639	Y
3	IC 160-358742/5	5.0	12.634975	50.0	1093627.0	2.526995	Y
4	IC 160-358742/6	10.0	22.431473	50.0	1083734.0	2.243147	Y
5	IC 160-358742/7	20.0	44.213219	50.0	1099074.0	2.210661	Y
6	ICIS 160-358742/8	50.0	109.668294	50.0	1151232.0	2.193366	Y
7	IC 160-358742/9	100.0	221.023547	50.0	1157514.0	2.210235	Y
8	IC 160-358742/10	200.0	405.313479	50.0	1136186.0	2.026567	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

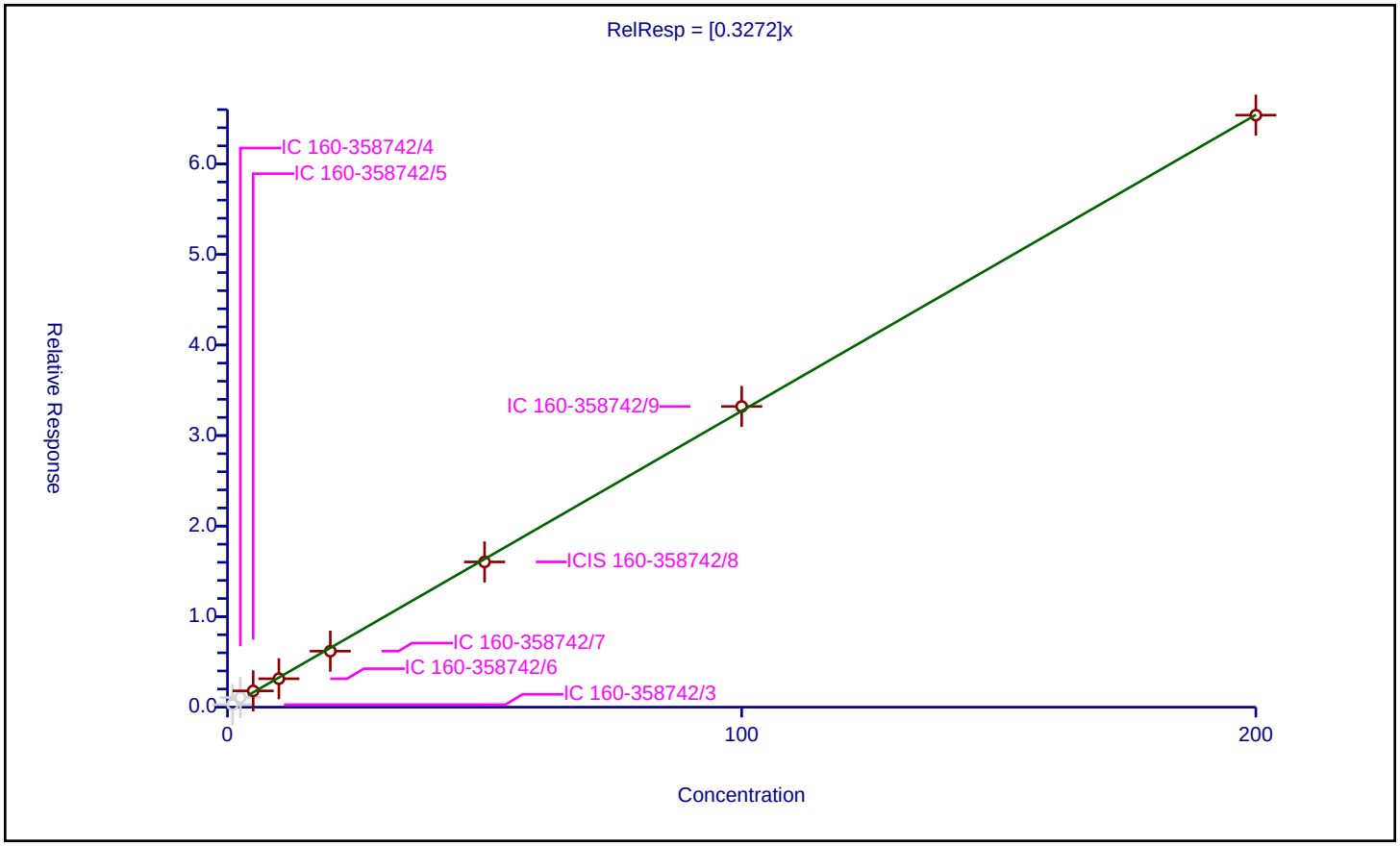
Curve Coefficients

Intercept:	0
Slope:	0.3272

Error Coefficients

Standard Error:	769000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.284699	50.0	1080614.0	0.284699	N
2	IC 160-358742/4	2.5	1.068122	50.0	1071273.0	0.427249	N
3	IC 160-358742/5	5.0	1.798511	50.0	1093627.0	0.359702	Y
4	IC 160-358742/6	10.0	3.140761	50.0	1083734.0	0.314076	Y
5	IC 160-358742/7	20.0	6.185161	50.0	1099074.0	0.309258	Y
6	ICIS 160-358742/8	50.0	16.041467	50.0	1151232.0	0.320829	Y
7	IC 160-358742/9	100.0	33.211175	50.0	1157514.0	0.332112	Y
8	IC 160-358742/10	200.0	65.386565	50.0	1136186.0	0.326933	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

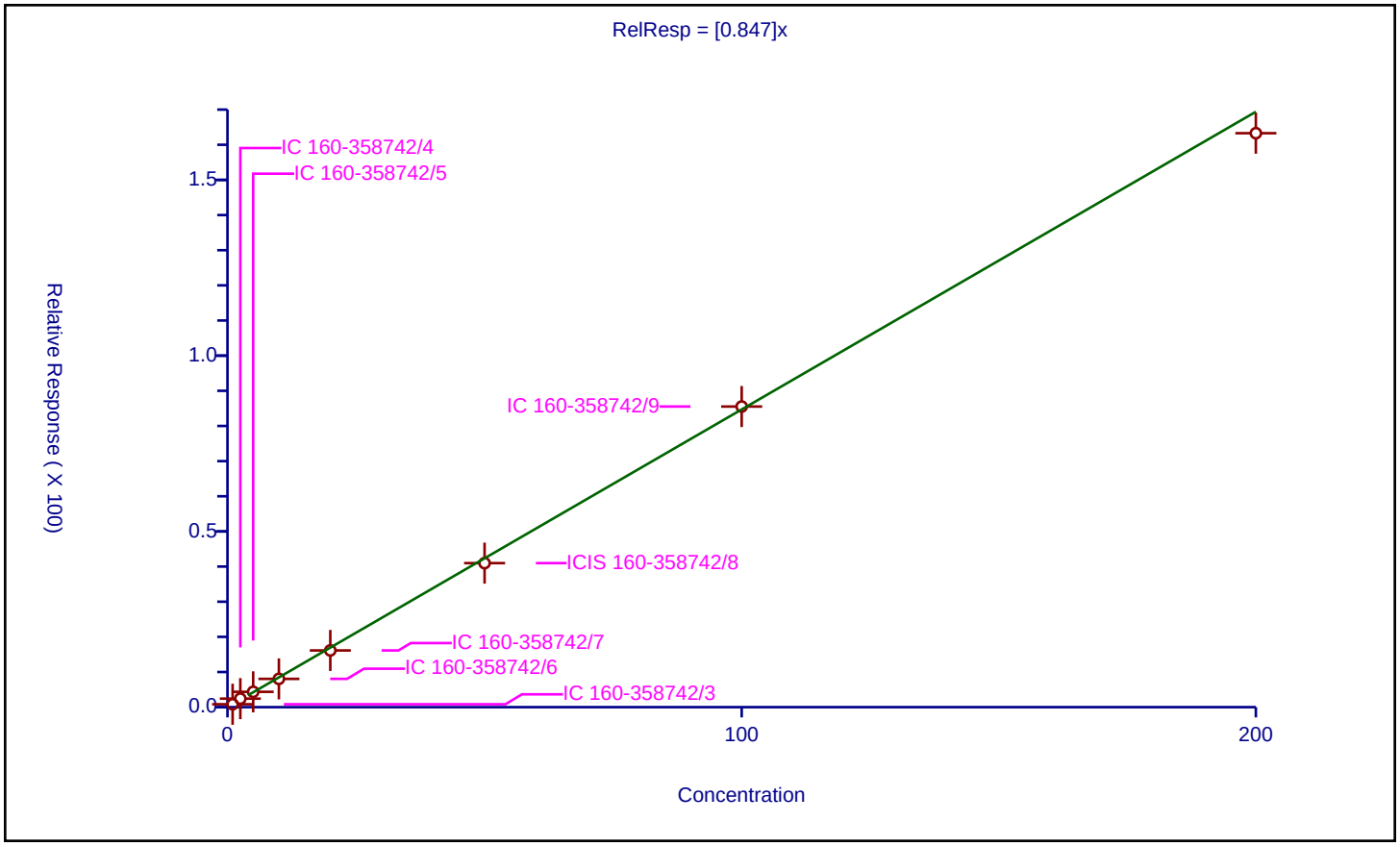
Curve Coefficients

Intercept:	0
Slope:	0.847

Error Coefficients

Standard Error:	1640000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.829112	50.0	1080614.0	0.829112	Y
2	IC 160-358742/4	2.5	2.425666	50.0	1071273.0	0.970266	Y
3	IC 160-358742/5	5.0	4.367211	50.0	1093627.0	0.873442	Y
4	IC 160-358742/6	10.0	8.0487	50.0	1083734.0	0.80487	Y
5	IC 160-358742/7	20.0	16.137903	50.0	1099074.0	0.806895	Y
6	ICIS 160-358742/8	50.0	40.976059	50.0	1151232.0	0.819521	Y
7	IC 160-358742/9	100.0	85.522335	50.0	1157514.0	0.855223	Y
8	IC 160-358742/10	200.0	163.288229	50.0	1136186.0	0.816441	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

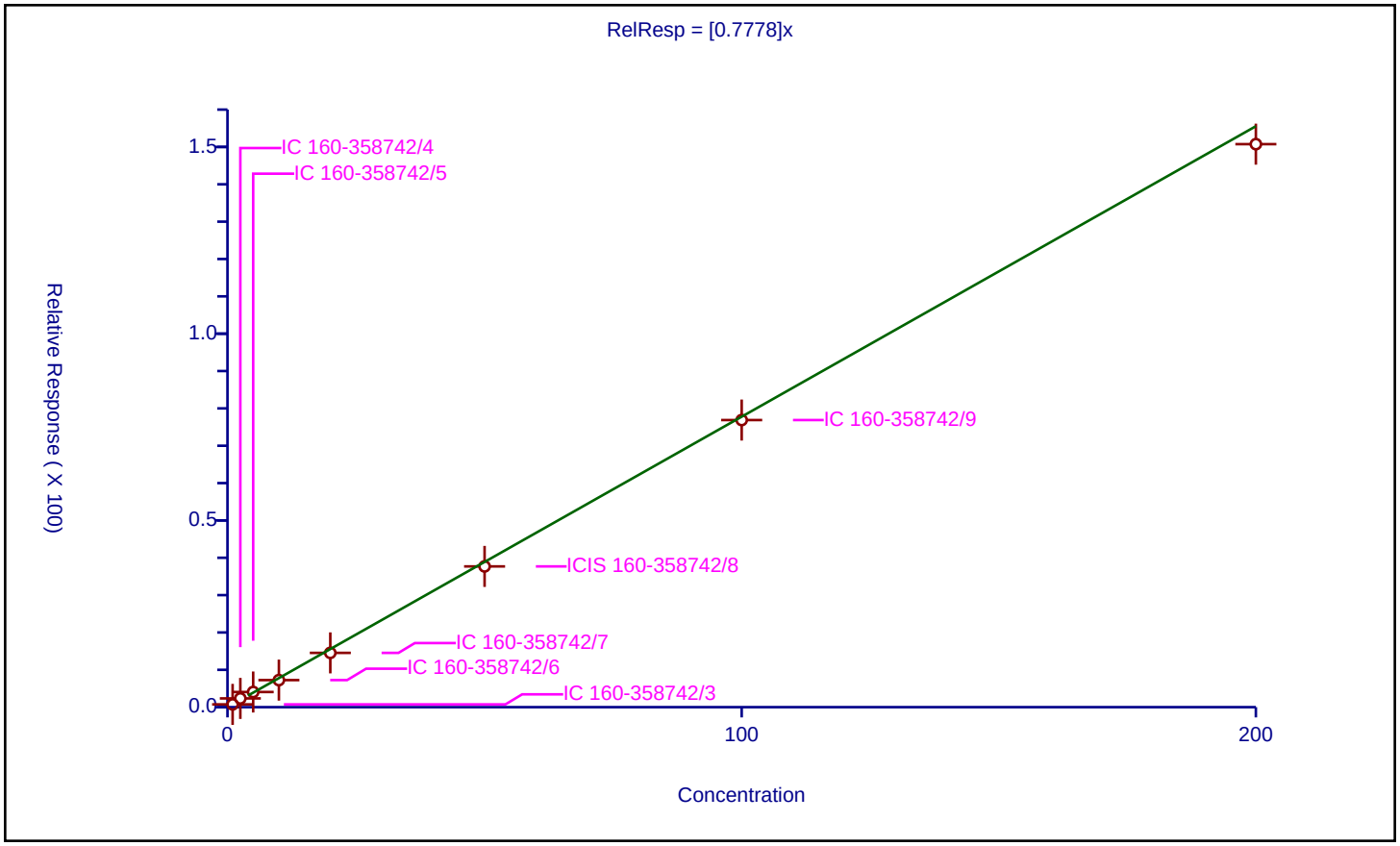
Curve Coefficients

Intercept:	0
Slope:	0.7778

Error Coefficients

Standard Error:	1500000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.744392	50.0	1080614.0	0.744392	Y
2	IC 160-358742/4	2.5	2.345574	50.0	1071273.0	0.93823	Y
3	IC 160-358742/5	5.0	4.060479	50.0	1093627.0	0.812096	Y
4	IC 160-358742/6	10.0	7.242598	50.0	1083734.0	0.72426	Y
5	IC 160-358742/7	20.0	14.538421	50.0	1099074.0	0.726921	Y
6	ICIS 160-358742/8	50.0	37.685888	50.0	1151232.0	0.753718	Y
7	IC 160-358742/9	100.0	76.875528	50.0	1157514.0	0.768755	Y
8	IC 160-358742/10	200.0	150.747765	50.0	1136186.0	0.753739	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

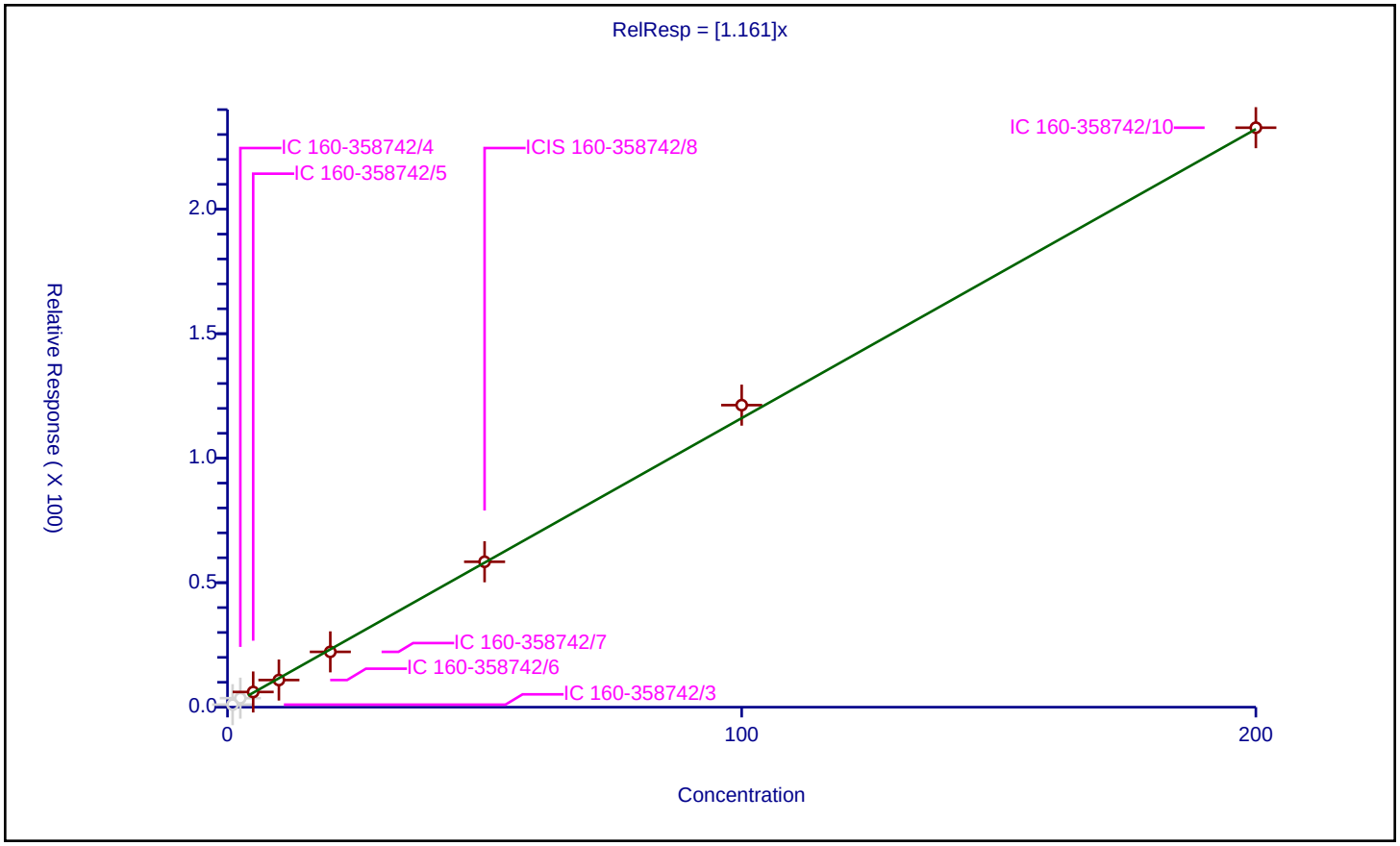
Curve Coefficients

Intercept:	0
Slope:	1.161

Error Coefficients

Standard Error:	2760000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	1.012572	50.0	1080614.0	1.012572	N
2	IC 160-358742/4	2.5	3.616865	50.0	1071273.0	1.446746	N
3	IC 160-358742/5	5.0	6.100297	50.0	1093627.0	1.220059	Y
4	IC 160-358742/6	10.0	10.896631	50.0	1083734.0	1.089663	Y
5	IC 160-358742/7	20.0	22.217931	50.0	1099074.0	1.110897	Y
6	ICIS 160-358742/8	50.0	58.400392	50.0	1151232.0	1.168008	Y
7	IC 160-358742/9	100.0	121.304235	50.0	1157514.0	1.213042	Y
8	IC 160-358742/10	200.0	232.735925	50.0	1136186.0	1.16368	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

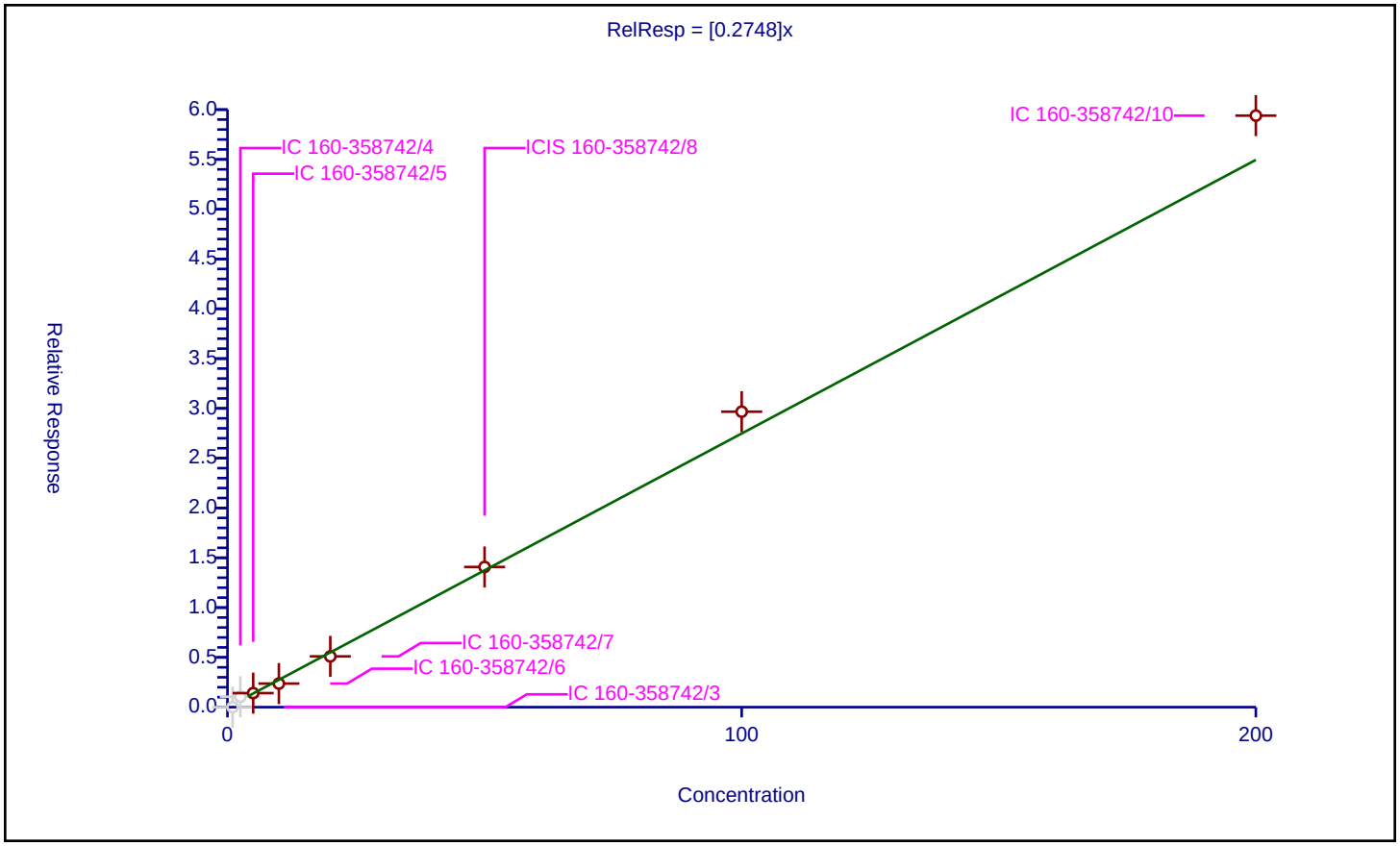
Curve Coefficients

Intercept:	0
Slope:	0.2748

Error Coefficients

Standard Error:	312000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	486042.0	0.0	N
2	IC 160-358742/4	2.5	1.047652	50.0	476017.0	0.419061	N
3	IC 160-358742/5	5.0	1.408059	50.0	487160.0	0.281612	Y
4	IC 160-358742/6	10.0	2.368957	50.0	486902.0	0.236896	Y
5	IC 160-358742/7	20.0	5.0972	50.0	485904.0	0.25486	Y
6	ICIS 160-358742/8	50.0	14.077632	50.0	502137.0	0.281553	Y
7	IC 160-358742/9	100.0	29.66756	50.0	501354.0	0.296676	Y
8	IC 160-358742/10	200.0	59.397213	50.0	514759.0	0.296986	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

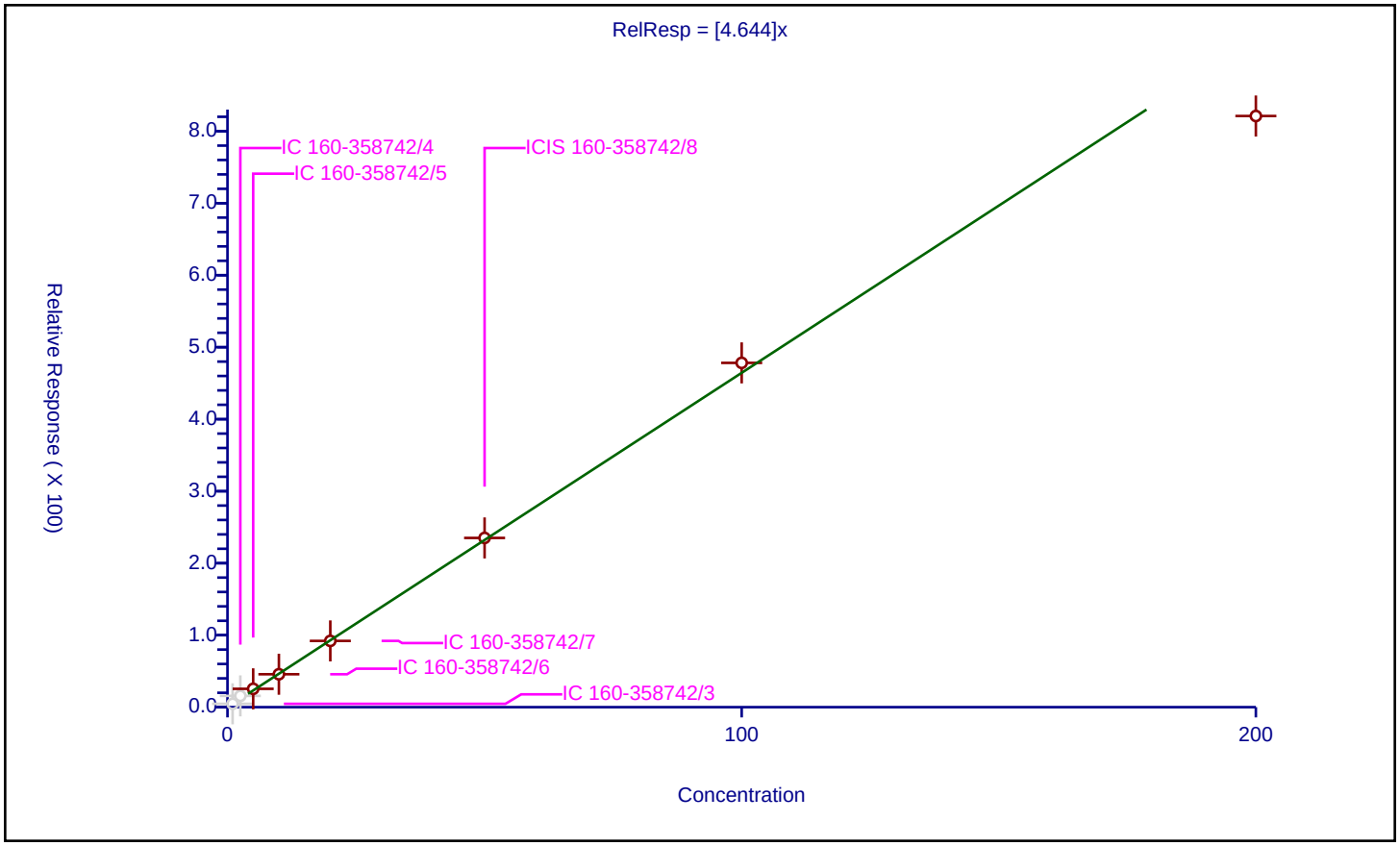
Curve Coefficients

Intercept:	0
Slope:	4.644

Error Coefficients

Standard Error:	4500000
Relative Standard Error:	7.0
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	4.630464	50.0	486042.0	4.630464	N
2	IC 160-358742/4	2.5	15.697549	50.0	476017.0	6.279019	N
3	IC 160-358742/5	5.0	25.492857	50.0	487160.0	5.098571	Y
4	IC 160-358742/6	10.0	45.73559	50.0	486902.0	4.573559	Y
5	IC 160-358742/7	20.0	92.042564	50.0	485904.0	4.602128	Y
6	ICIS 160-358742/8	50.0	235.081561	50.0	502137.0	4.701631	Y
7	IC 160-358742/9	100.0	478.218983	50.0	501354.0	4.78219	Y
8	IC 160-358742/10	200.0	821.105313	50.0	514759.0	4.105527	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

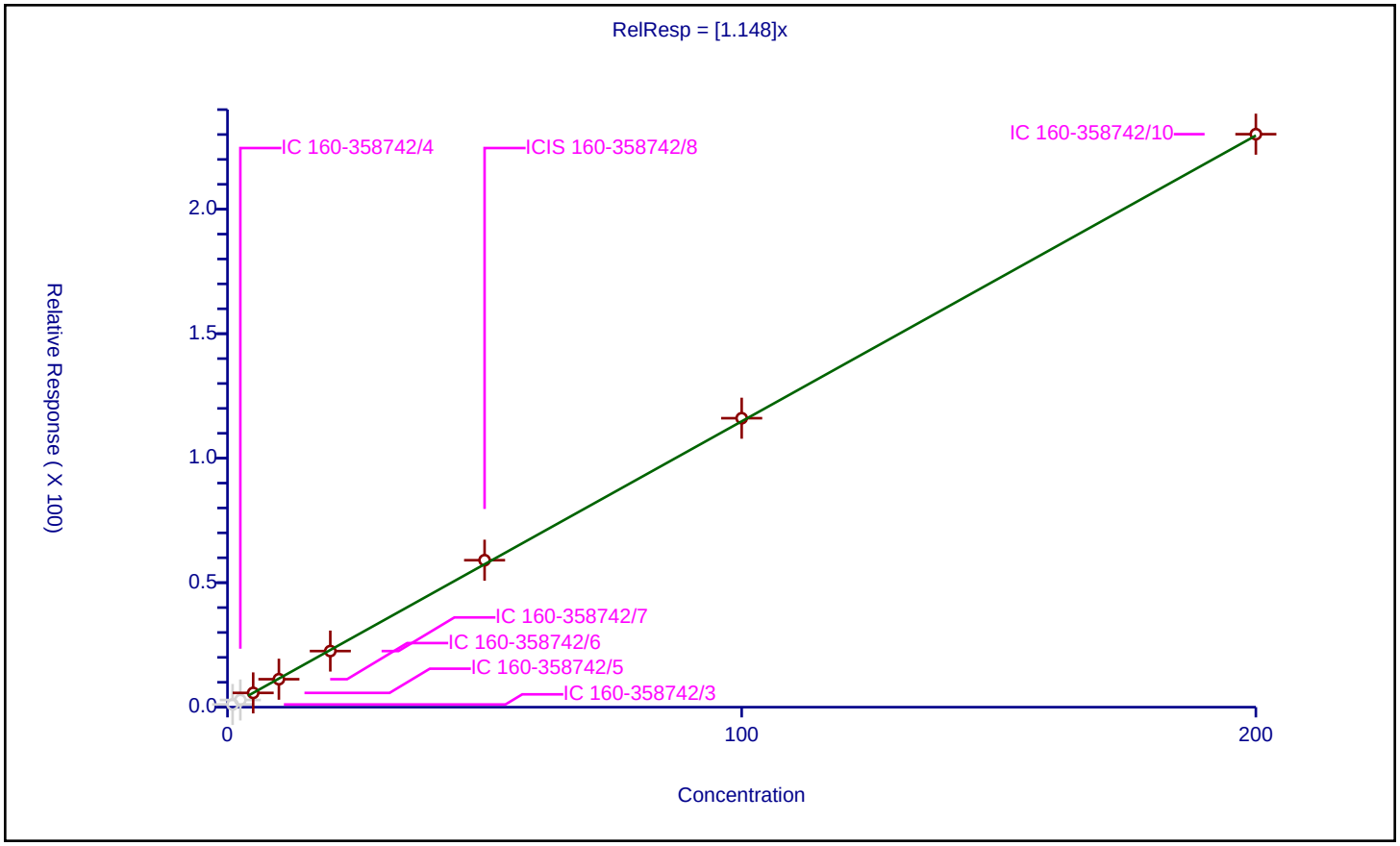
Curve Coefficients

Intercept:	0
Slope:	1.148

Error Coefficients

Standard Error:	1210000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	1.090749	50.0	486042.0	1.090749	N
2	IC 160-358742/4	2.5	2.885821	50.0	476017.0	1.154329	N
3	IC 160-358742/5	5.0	5.730561	50.0	487160.0	1.146112	Y
4	IC 160-358742/6	10.0	11.230597	50.0	486902.0	1.12306	Y
5	IC 160-358742/7	20.0	22.538094	50.0	485904.0	1.126905	Y
6	ICIS 160-358742/8	50.0	59.028413	50.0	502137.0	1.180568	Y
7	IC 160-358742/9	100.0	116.052131	50.0	501354.0	1.160521	Y
8	IC 160-358742/10	200.0	230.132839	50.0	514759.0	1.150664	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

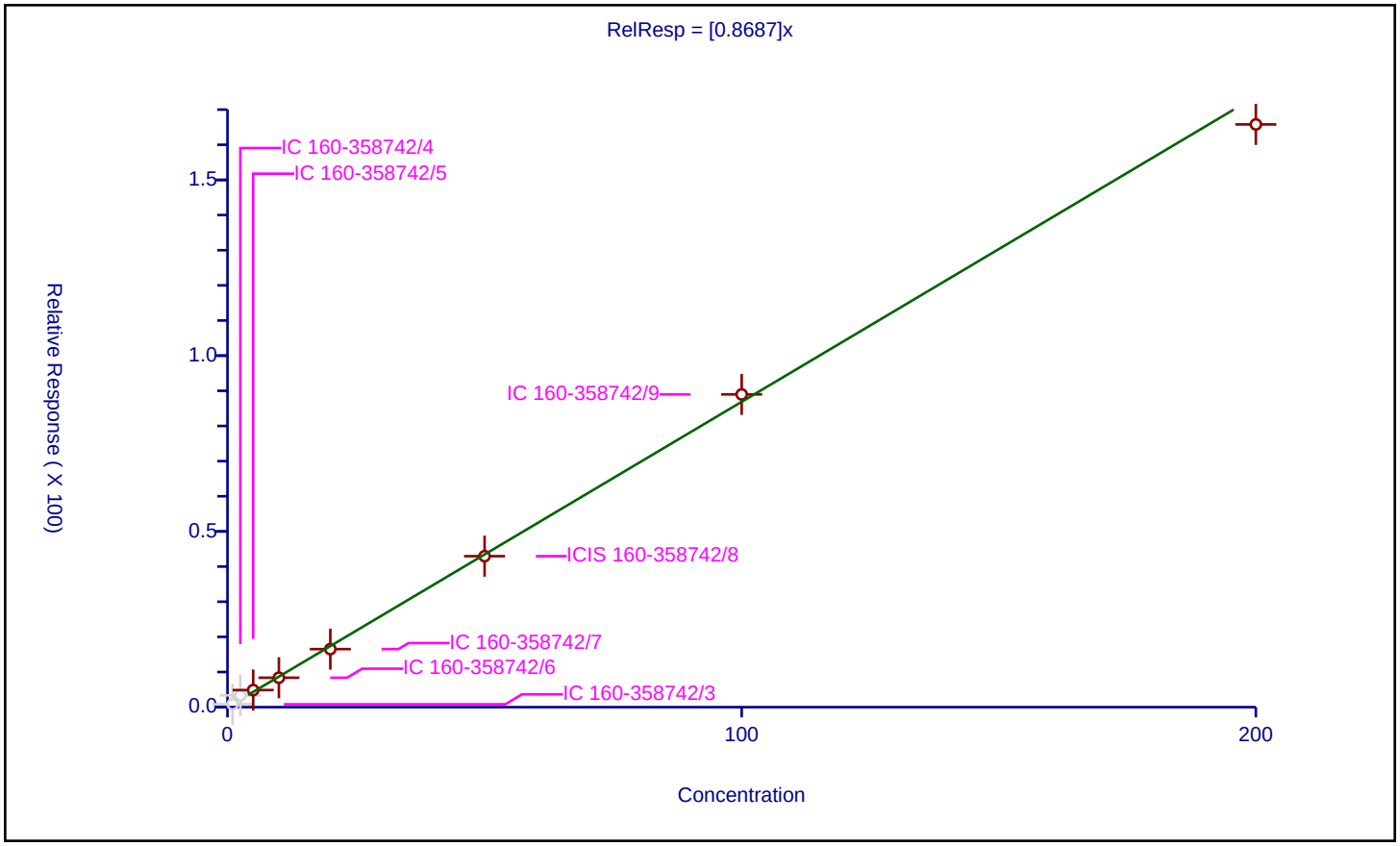
Curve Coefficients

Intercept:	0
Slope:	0.8687

Error Coefficients

Standard Error:	886000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.828632	50.0	486042.0	0.828632	N
2	IC 160-358742/4	2.5	3.356708	50.0	476017.0	1.342683	N
3	IC 160-358742/5	5.0	4.857747	50.0	487160.0	0.971549	Y
4	IC 160-358742/6	10.0	8.372732	50.0	486902.0	0.837273	Y
5	IC 160-358742/7	20.0	16.515608	50.0	485904.0	0.82578	Y
6	ICIS 160-358742/8	50.0	42.954712	50.0	502137.0	0.859094	Y
7	IC 160-358742/9	100.0	88.984131	50.0	501354.0	0.889841	Y
8	IC 160-358742/10	200.0	165.789233	50.0	514759.0	0.828946	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

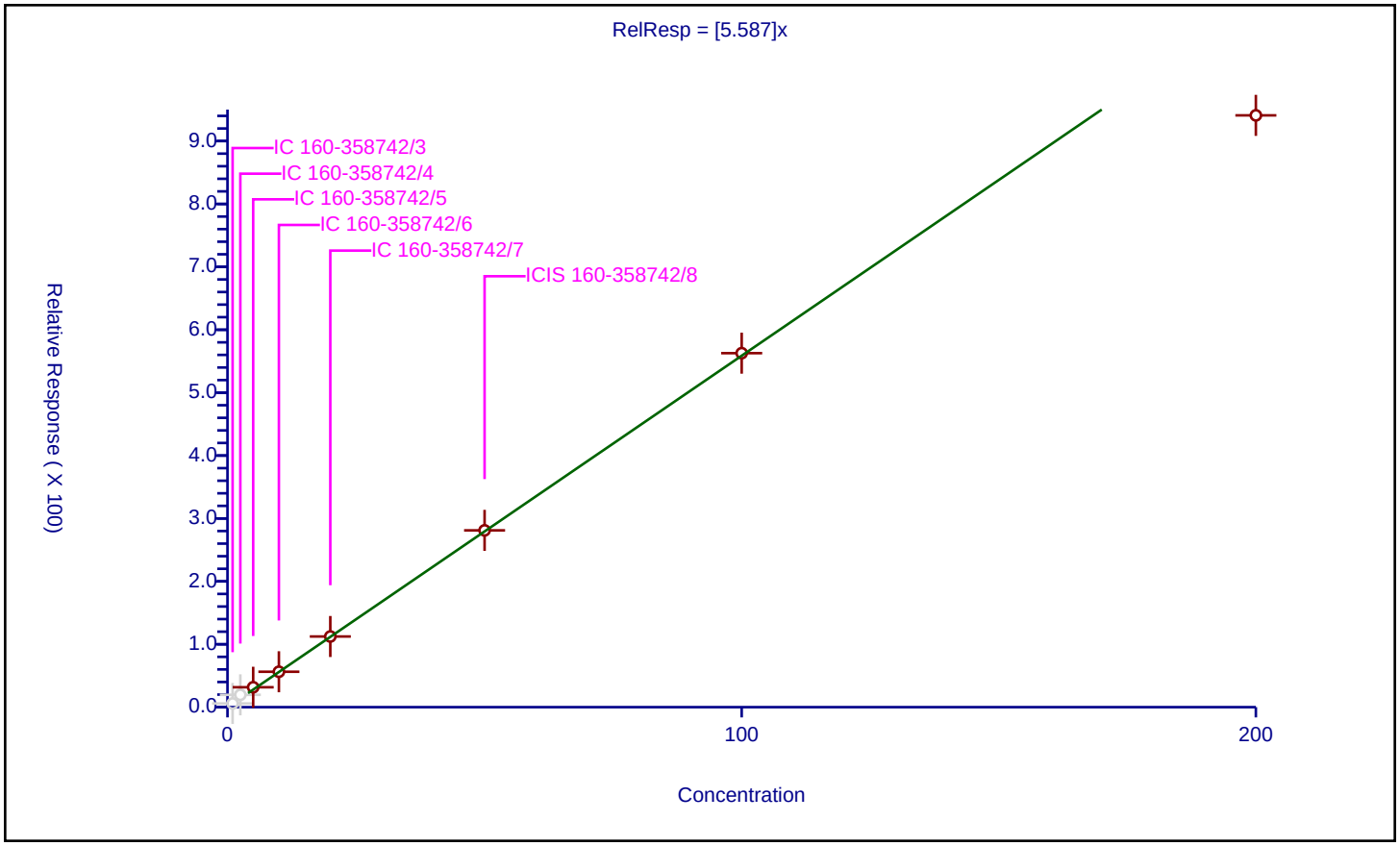
Curve Coefficients

Intercept:	0
Slope:	5.587

Error Coefficients

Standard Error:	5200000
Relative Standard Error:	9.2
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	5.888174	50.0	486042.0	5.888174	N
2	IC 160-358742/4	2.5	19.607073	50.0	476017.0	7.842829	N
3	IC 160-358742/5	5.0	31.627699	50.0	487160.0	6.32554	Y
4	IC 160-358742/6	10.0	56.290691	50.0	486902.0	5.629069	Y
5	IC 160-358742/7	20.0	112.329184	50.0	485904.0	5.616459	Y
6	ICIS 160-358742/8	50.0	281.061742	50.0	502137.0	5.621235	Y
7	IC 160-358742/9	100.0	562.792358	50.0	501354.0	5.627924	Y
8	IC 160-358742/10	200.0	940.869514	50.0	514759.0	4.704348	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

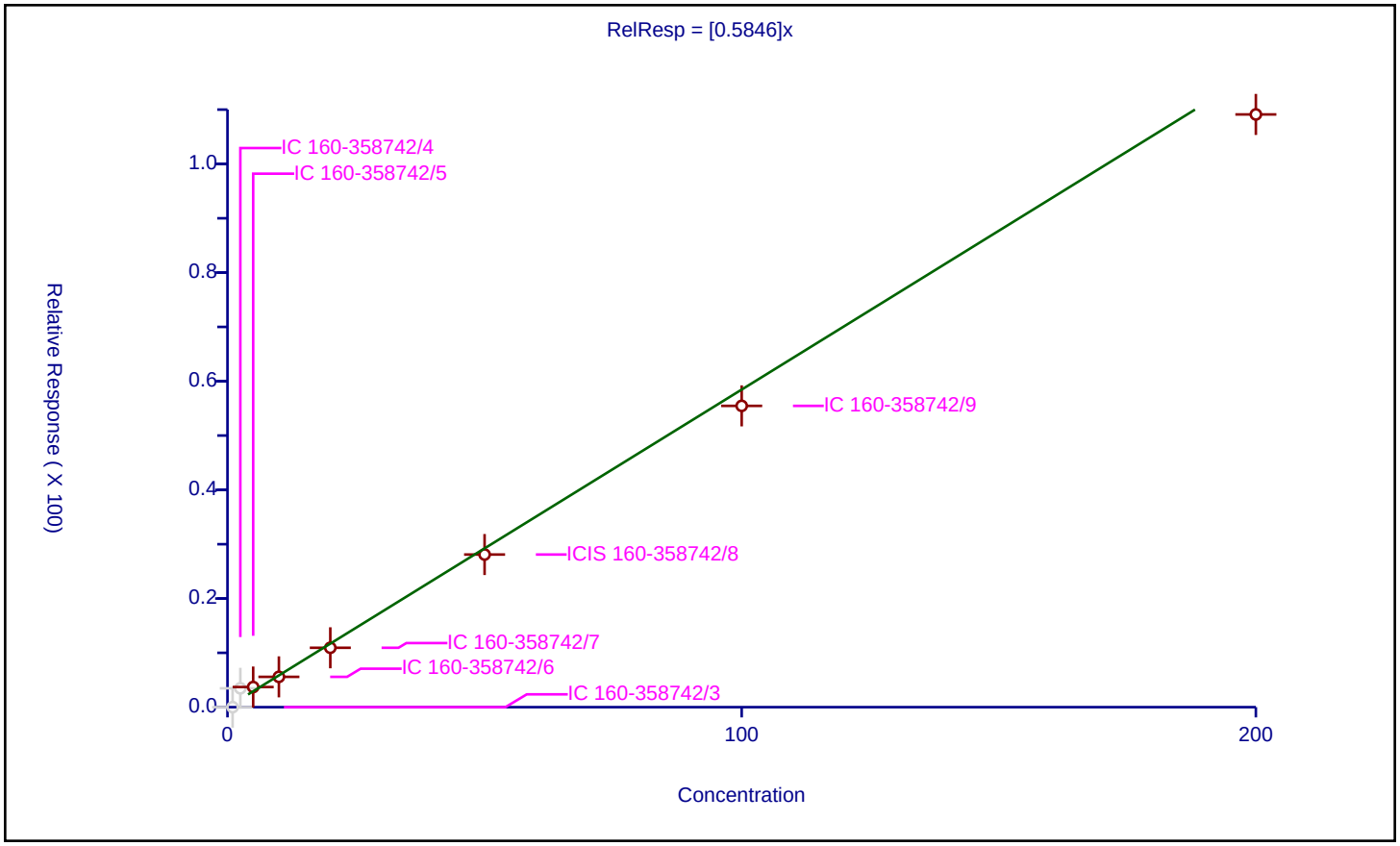
Curve Coefficients

Intercept:	0
Slope:	0.5846

Error Coefficients

Standard Error:	577000
Relative Standard Error:	13.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	486042.0	0.0	N
2	IC 160-358742/4	2.5	3.471515	50.0	476017.0	1.388606	N
3	IC 160-358742/5	5.0	3.704532	50.0	487160.0	0.740906	Y
4	IC 160-358742/6	10.0	5.581308	50.0	486902.0	0.558131	Y
5	IC 160-358742/7	20.0	10.931377	50.0	485904.0	0.546569	Y
6	ICIS 160-358742/8	50.0	28.097113	50.0	502137.0	0.561942	Y
7	IC 160-358742/9	100.0	55.460313	50.0	501354.0	0.554603	Y
8	IC 160-358742/10	200.0	109.109894	50.0	514759.0	0.545549	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

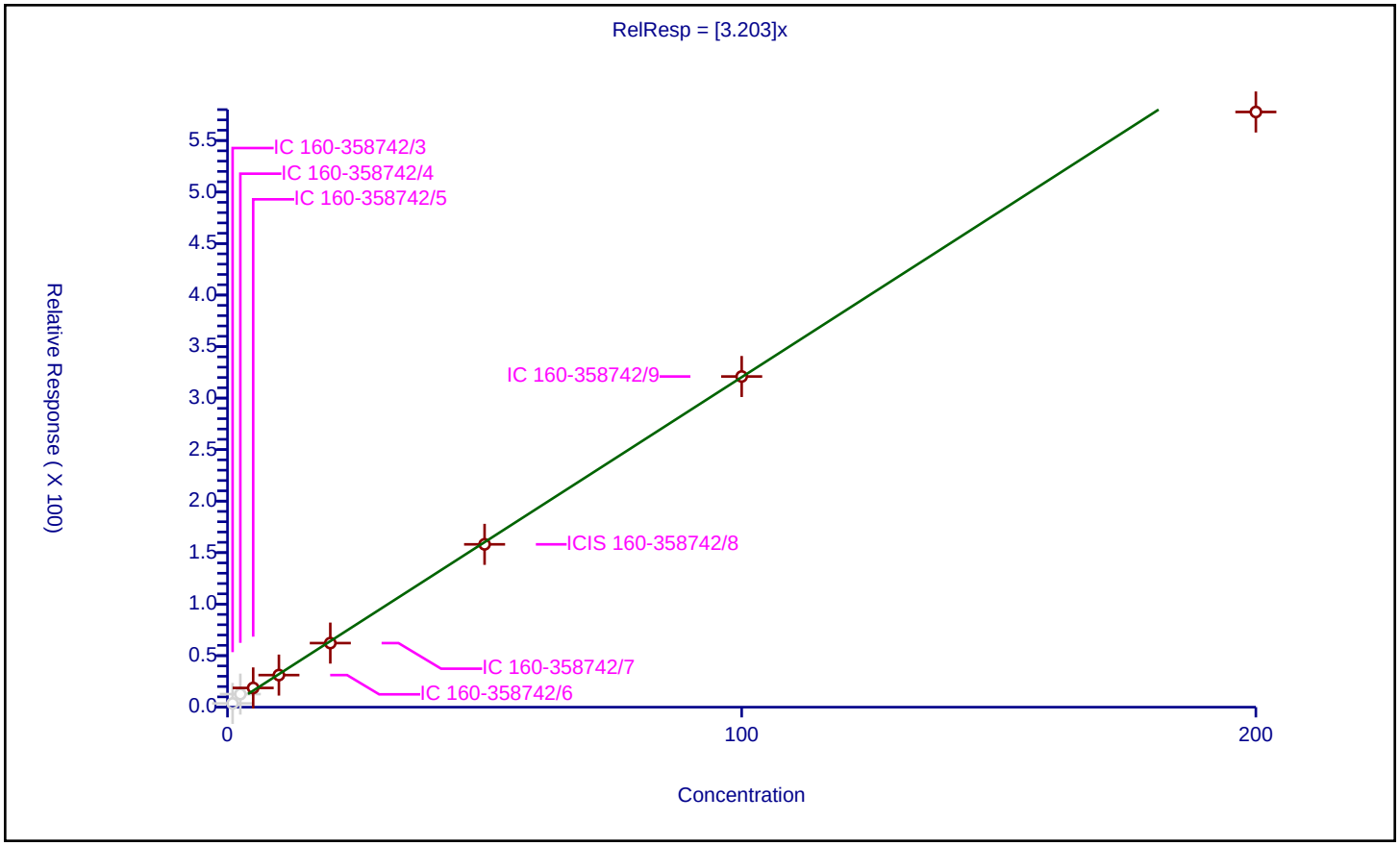
Curve Coefficients

Intercept:	0
Slope:	3.203

Error Coefficients

Standard Error:	3120000
Relative Standard Error:	8.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	3.655034	50.0	486042.0	3.655034	N
2	IC 160-358742/4	2.5	12.673287	50.0	476017.0	5.069315	N
3	IC 160-358742/5	5.0	18.669842	50.0	487160.0	3.733968	Y
4	IC 160-358742/6	10.0	31.152059	50.0	486902.0	3.115206	Y
5	IC 160-358742/7	20.0	62.196133	50.0	485904.0	3.109807	Y
6	ICIS 160-358742/8	50.0	158.038145	50.0	502137.0	3.160763	Y
7	IC 160-358742/9	100.0	320.949269	50.0	501354.0	3.209493	Y
8	IC 160-358742/10	200.0	577.704032	50.0	514759.0	2.88852	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

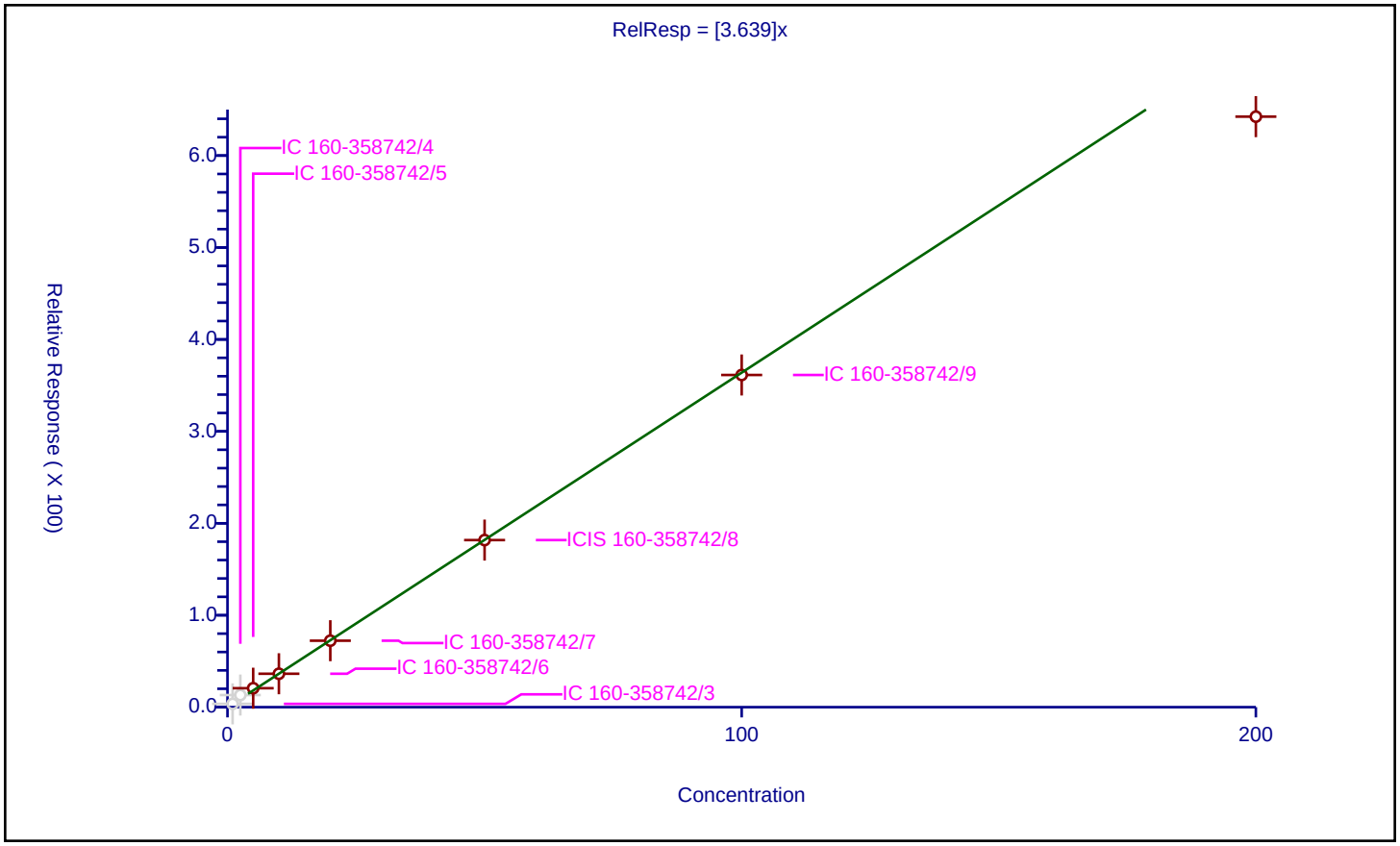
Curve Coefficients

Intercept:	0
Slope:	3.639

Error Coefficients

Standard Error:	3490000
Relative Standard Error:	8.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	3.572634	50.0	486042.0	3.572634	N
2	IC 160-358742/4	2.5	13.184823	50.0	476017.0	5.273929	N
3	IC 160-358742/5	5.0	20.617662	50.0	487160.0	4.123532	Y
4	IC 160-358742/6	10.0	36.345712	50.0	486902.0	3.634571	Y
5	IC 160-358742/7	20.0	72.290823	50.0	485904.0	3.614541	Y
6	ICIS 160-358742/8	50.0	181.740641	50.0	502137.0	3.634813	Y
7	IC 160-358742/9	100.0	361.327226	50.0	501354.0	3.613272	Y
8	IC 160-358742/10	200.0	642.339425	50.0	514759.0	3.211697	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

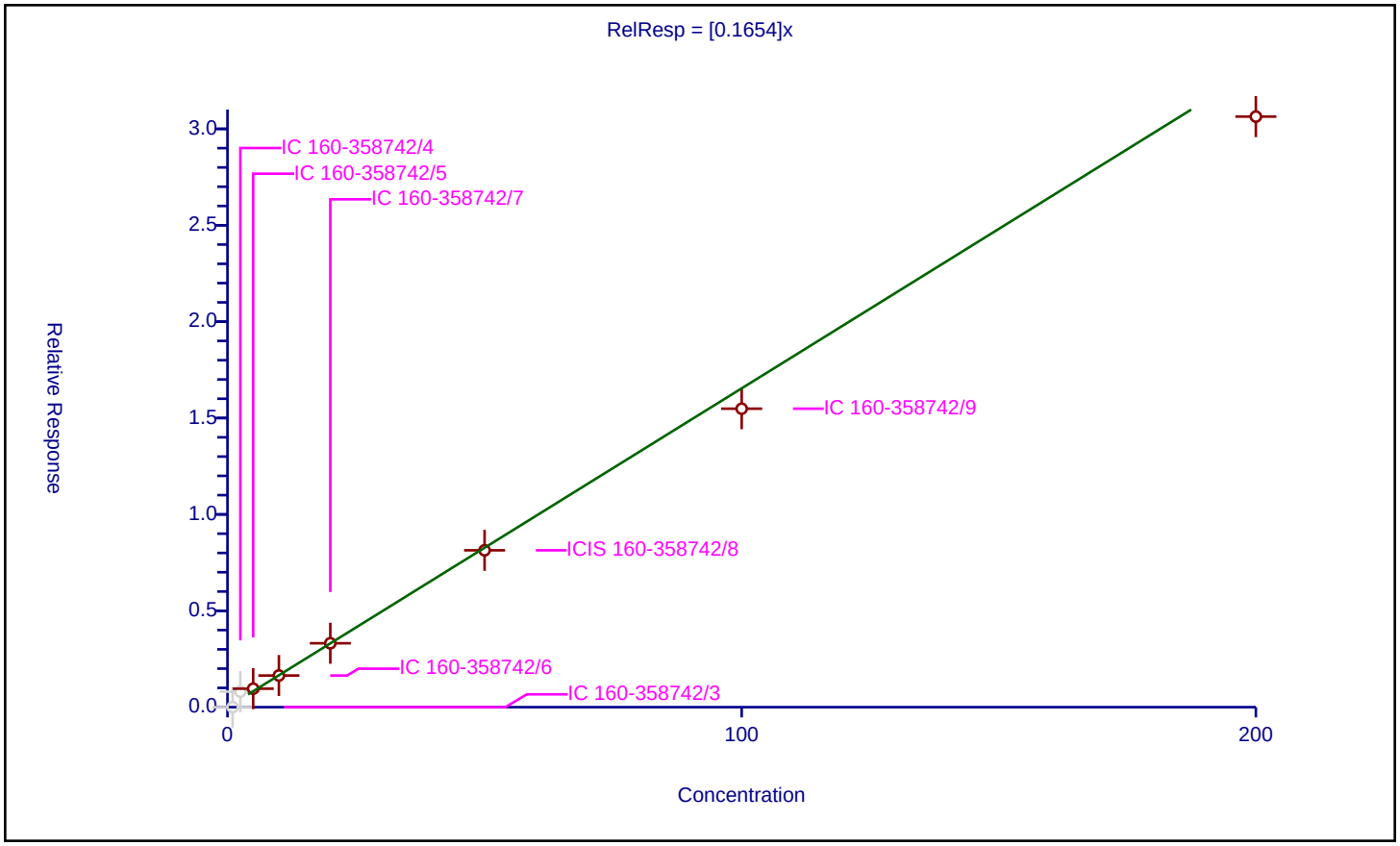
Curve Coefficients

Intercept:	0
Slope:	0.1654

Error Coefficients

Standard Error:	162000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	486042.0	0.0	N
2	IC 160-358742/4	2.5	0.804803	50.0	476017.0	0.321921	N
3	IC 160-358742/5	5.0	0.958001	50.0	487160.0	0.1916	Y
4	IC 160-358742/6	10.0	1.64222	50.0	486902.0	0.164222	Y
5	IC 160-358742/7	20.0	3.315573	50.0	485904.0	0.165779	Y
6	ICIS 160-358742/8	50.0	8.137919	50.0	502137.0	0.162758	Y
7	IC 160-358742/9	100.0	15.484269	50.0	501354.0	0.154843	Y
8	IC 160-358742/10	200.0	30.638027	50.0	514759.0	0.15319	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

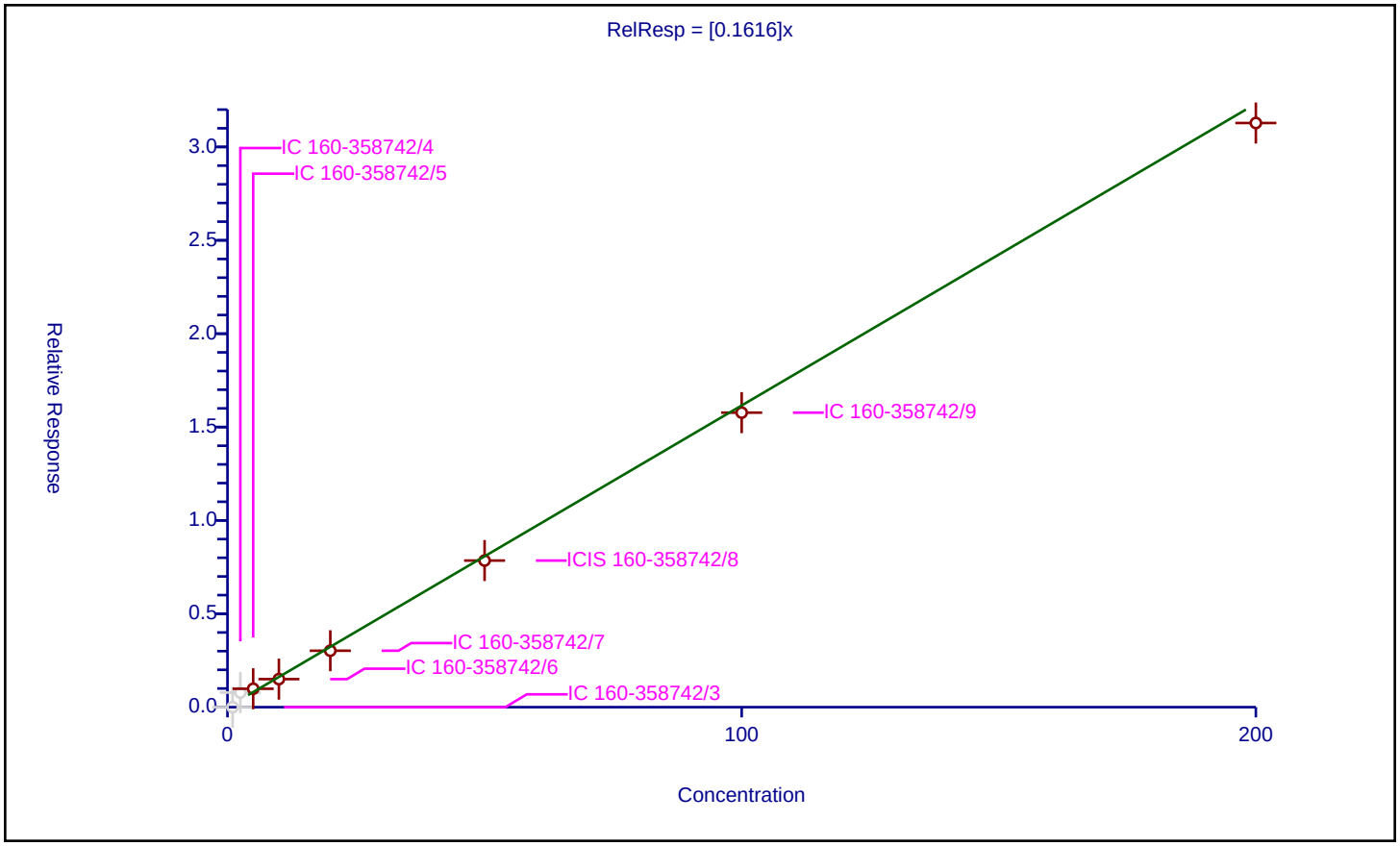
Curve Coefficients

Intercept:	0
Slope:	0.1616

Error Coefficients

Standard Error:	165000
Relative Standard Error:	10.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	486042.0	0.0	N
2	IC 160-358742/4	2.5	0.78117	50.0	476017.0	0.312468	N
3	IC 160-358742/5	5.0	0.9852	50.0	487160.0	0.19704	Y
4	IC 160-358742/6	10.0	1.500918	50.0	486902.0	0.150092	Y
5	IC 160-358742/7	20.0	3.022922	50.0	485904.0	0.151146	Y
6	ICIS 160-358742/8	50.0	7.850646	50.0	502137.0	0.157013	Y
7	IC 160-358742/9	100.0	15.772388	50.0	501354.0	0.157724	Y
8	IC 160-358742/10	200.0	31.282115	50.0	514759.0	0.156411	Y



Calibration / Cyclohexanone

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

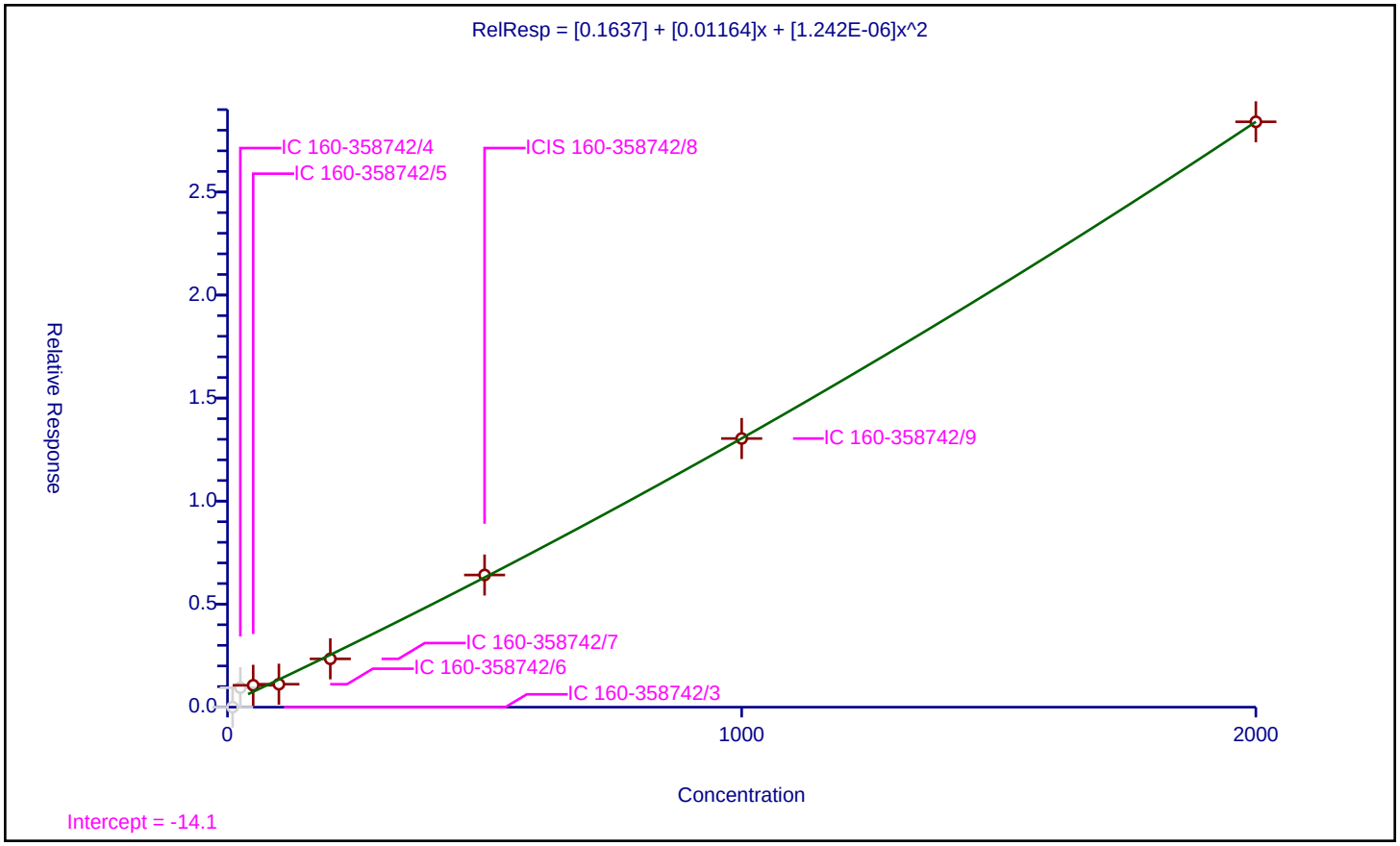
Curve Coefficients

Intercept:	0.1637
Slope:	0.01164
Second Order:	1.242E-06

Error Coefficients

Standard Error:	189000
Relative Standard Error:	32.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	10.0	0.0	50.0	486042.0	0.0	N
2	IC 160-358742/4	25.0	0.942823	50.0	476017.0	0.037713	N
3	IC 160-358742/5	50.0	1.061971	50.0	487160.0	0.021239	Y
4	IC 160-358742/6	100.0	1.113571	50.0	486902.0	0.011136	Y
5	IC 160-358742/7	200.0	2.34429	50.0	485904.0	0.011721	Y
6	ICIS 160-358742/8	500.0	6.414584	50.0	502137.0	0.012829	Y
7	IC 160-358742/9	1000.0	13.037893	50.0	501354.0	0.013038	Y
8	IC 160-358742/10	2000.0	28.407954	50.0	514759.0	0.014204	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

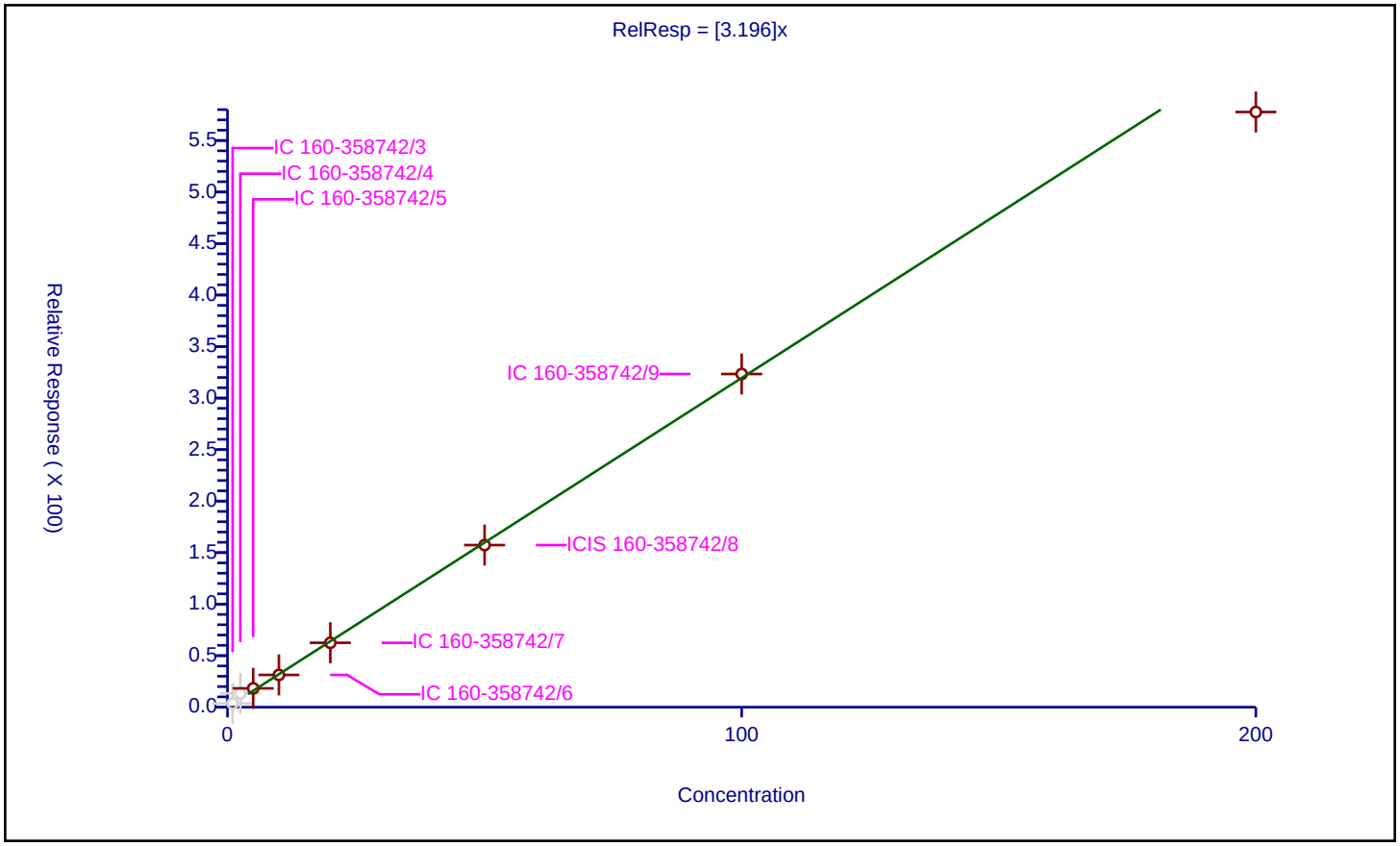
Curve Coefficients

Intercept:	0
Slope:	3.196

Error Coefficients

Standard Error:	3130000
Relative Standard Error:	7.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	3.565227	50.0	486042.0	3.565227	N
2	IC 160-358742/4	2.5	13.364859	50.0	476017.0	5.345944	N
3	IC 160-358742/5	5.0	18.255912	50.0	487160.0	3.651182	Y
4	IC 160-358742/6	10.0	31.283297	50.0	486902.0	3.12833	Y
5	IC 160-358742/7	20.0	62.500412	50.0	485904.0	3.125021	Y
6	ICIS 160-358742/8	50.0	157.33515	50.0	502137.0	3.146703	Y
7	IC 160-358742/9	100.0	323.372806	50.0	501354.0	3.233728	Y
8	IC 160-358742/10	200.0	577.66178	50.0	514759.0	2.888309	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

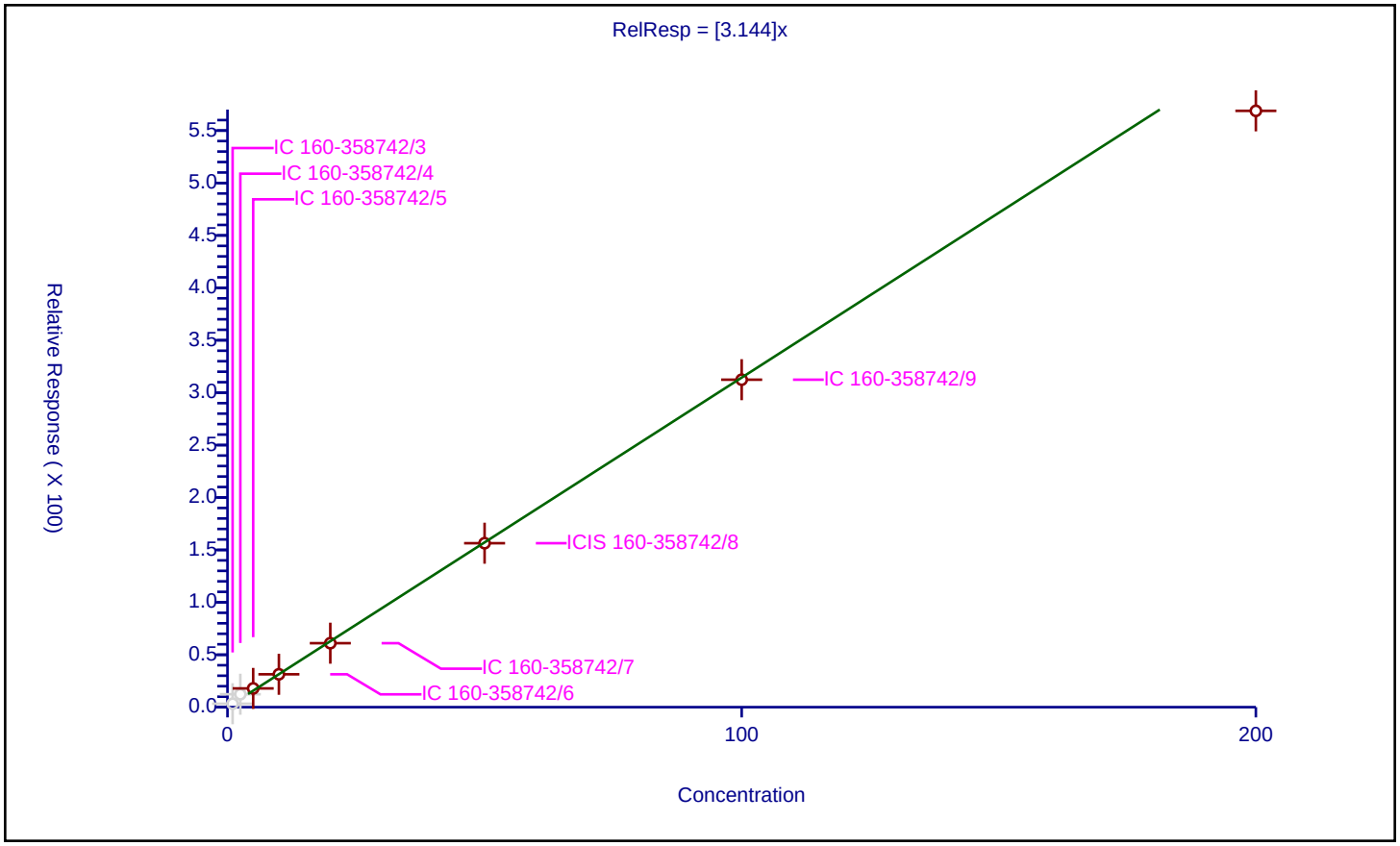
Curve Coefficients

Intercept:	0
Slope:	3.144

Error Coefficients

Standard Error:	3070000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	3.300641	50.0	486042.0	3.300641	N
2	IC 160-358742/4	2.5	12.346093	50.0	476017.0	4.938437	N
3	IC 160-358742/5	5.0	17.895558	50.0	487160.0	3.579112	Y
4	IC 160-358742/6	10.0	31.365655	50.0	486902.0	3.136565	Y
5	IC 160-358742/7	20.0	61.020387	50.0	485904.0	3.051019	Y
6	ICIS 160-358742/8	50.0	156.403531	50.0	502137.0	3.128071	Y
7	IC 160-358742/9	100.0	312.364617	50.0	501354.0	3.123646	Y
8	IC 160-358742/10	200.0	568.821526	50.0	514759.0	2.844108	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

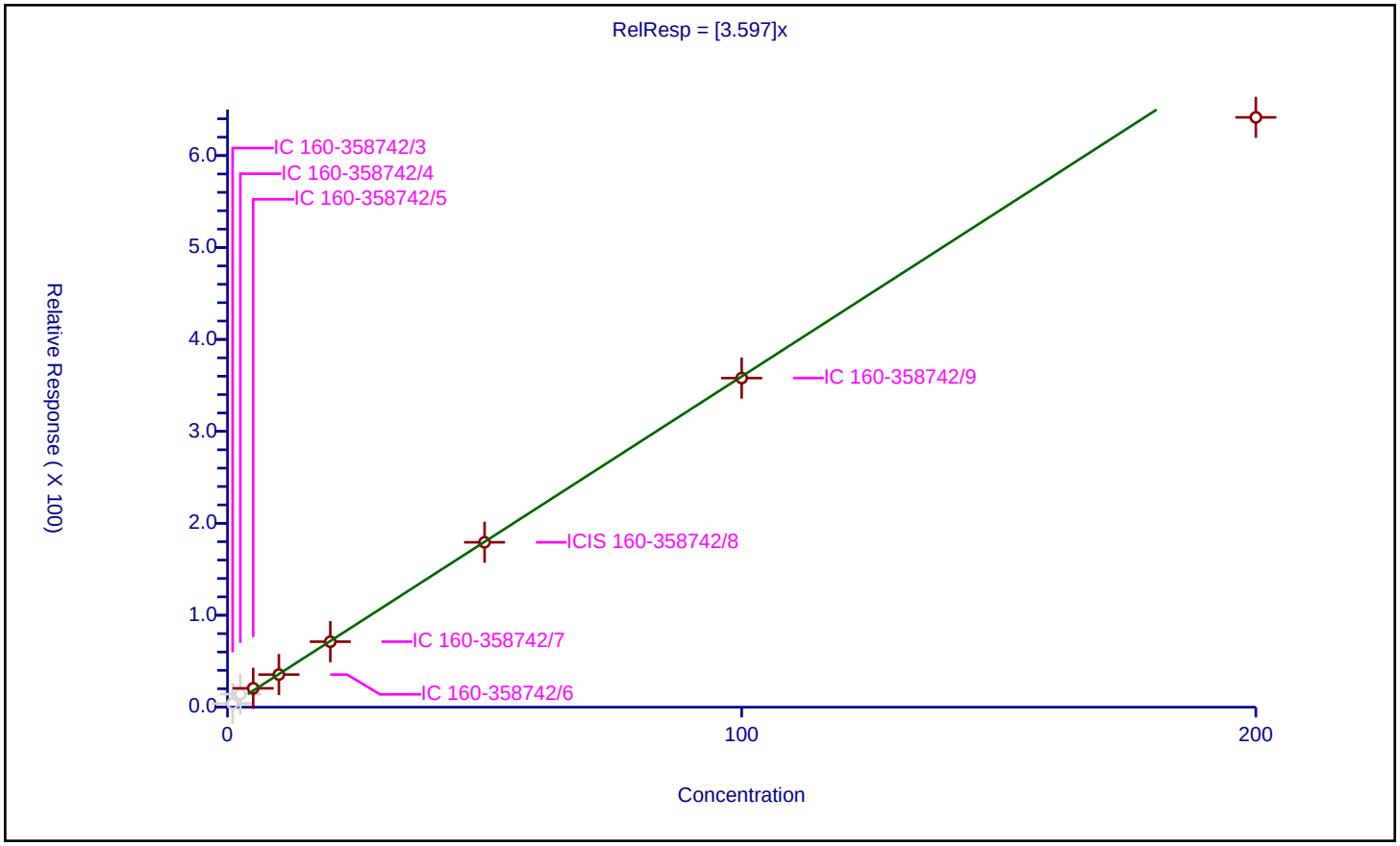
Curve Coefficients

Intercept:	0
Slope:	3.597

Error Coefficients

Standard Error:	3480000
Relative Standard Error:	7.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	3.841129	50.0	486042.0	3.841129	N
2	IC 160-358742/4	2.5	14.146554	50.0	476017.0	5.658621	N
3	IC 160-358742/5	5.0	20.499323	50.0	487160.0	4.099865	Y
4	IC 160-358742/6	10.0	35.466172	50.0	486902.0	3.546617	Y
5	IC 160-358742/7	20.0	71.230325	50.0	485904.0	3.561516	Y
6	ICIS 160-358742/8	50.0	179.352547	50.0	502137.0	3.587051	Y
7	IC 160-358742/9	100.0	358.000535	50.0	501354.0	3.580005	Y
8	IC 160-358742/10	200.0	641.559934	50.0	514759.0	3.2078	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

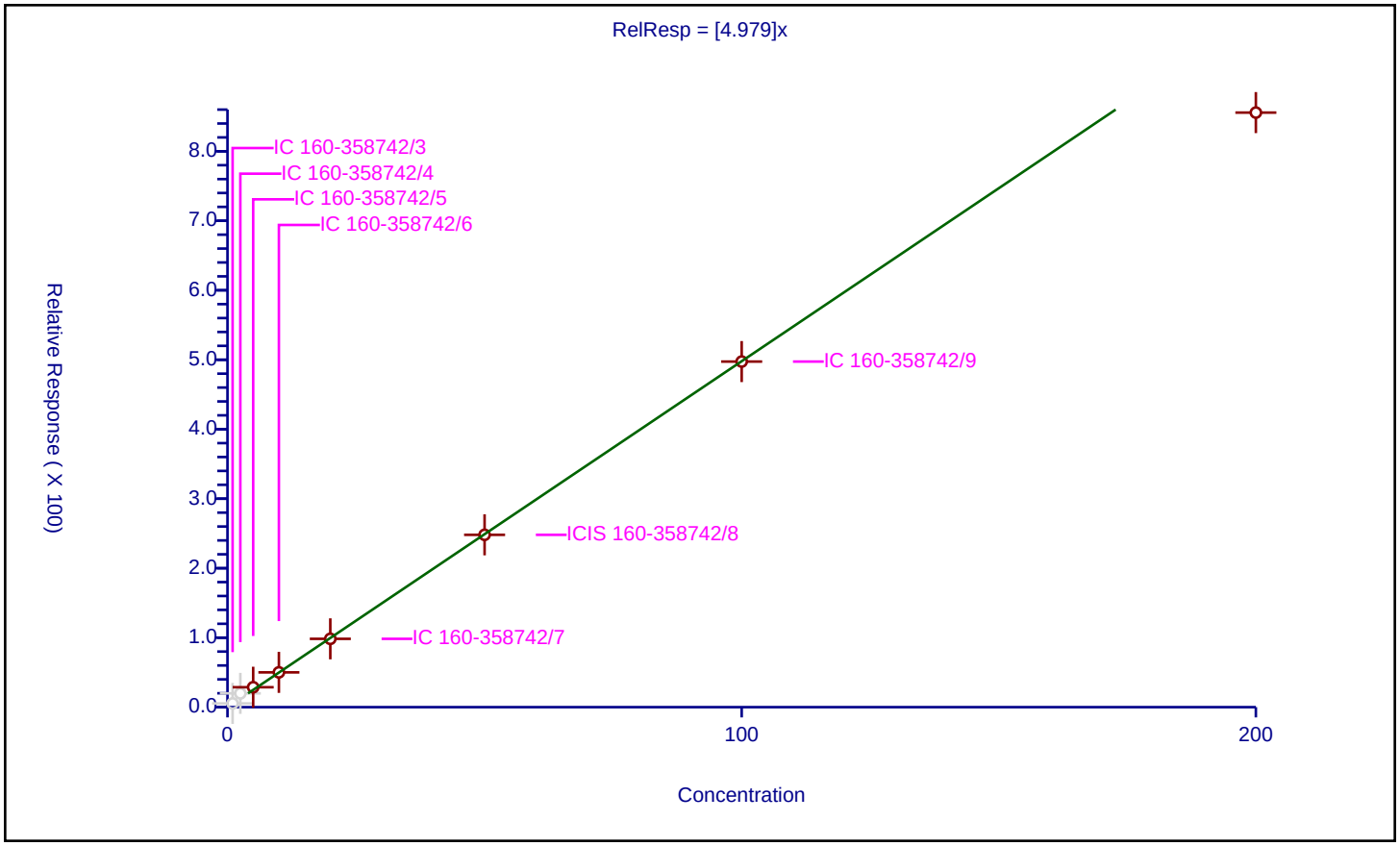
Curve Coefficients

Intercept:	0
Slope:	4.979

Error Coefficients

Standard Error:	4690000
Relative Standard Error:	9.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	5.388938	50.0	486042.0	5.388938	N
2	IC 160-358742/4	2.5	19.853072	50.0	476017.0	7.941229	N
3	IC 160-358742/5	5.0	28.6721	50.0	487160.0	5.73442	Y
4	IC 160-358742/6	10.0	50.088827	50.0	486902.0	5.008883	Y
5	IC 160-358742/7	20.0	98.337737	50.0	485904.0	4.916887	Y
6	ICIS 160-358742/8	50.0	248.020859	50.0	502137.0	4.960417	Y
7	IC 160-358742/9	100.0	497.381092	50.0	501354.0	4.973811	Y
8	IC 160-358742/10	200.0	855.701697	50.0	514759.0	4.278508	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

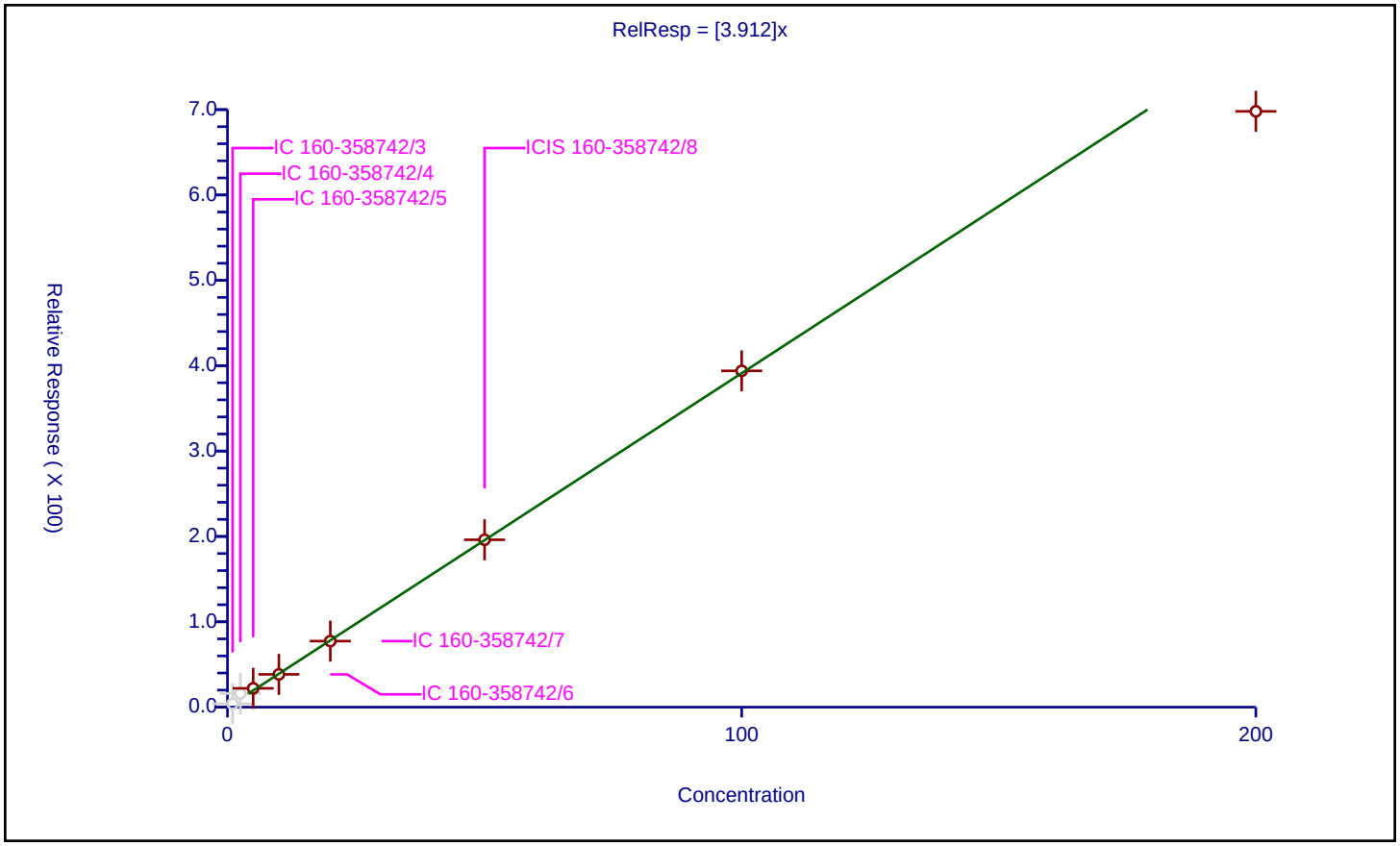
Curve Coefficients

Intercept:	0
Slope:	3.912

Error Coefficients

Standard Error:	3790000
Relative Standard Error:	7.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	4.012822	50.0	486042.0	4.012822	N
2	IC 160-358742/4	2.5	15.995752	50.0	476017.0	6.398301	N
3	IC 160-358742/5	5.0	22.055382	50.0	487160.0	4.411076	Y
4	IC 160-358742/6	10.0	38.426008	50.0	486902.0	3.842601	Y
5	IC 160-358742/7	20.0	77.379174	50.0	485904.0	3.868959	Y
6	ICIS 160-358742/8	50.0	196.103653	50.0	502137.0	3.922073	Y
7	IC 160-358742/9	100.0	393.95846	50.0	501354.0	3.939585	Y
8	IC 160-358742/10	200.0	697.985562	50.0	514759.0	3.489928	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

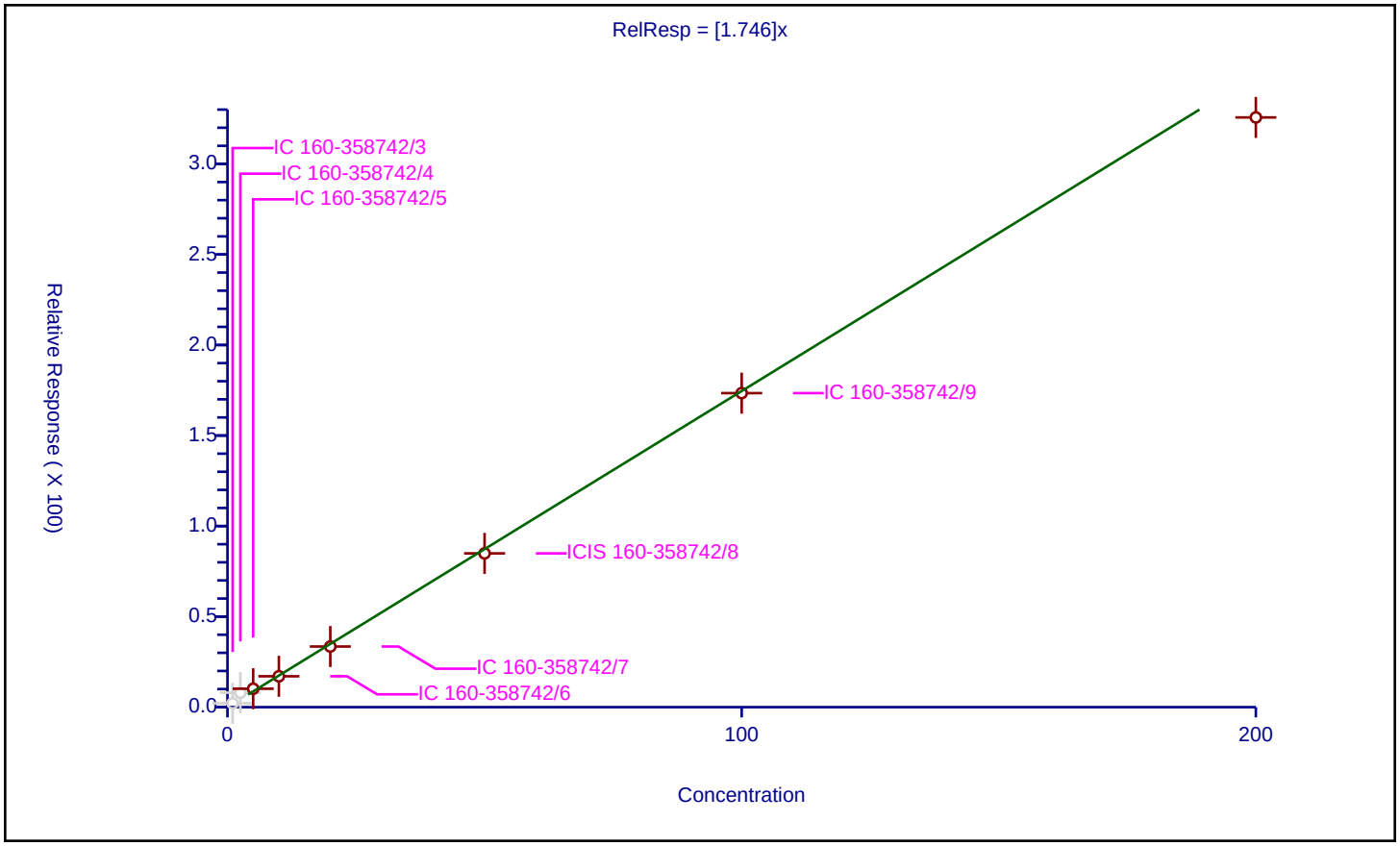
Curve Coefficients

Intercept:	0
Slope:	1.746

Error Coefficients

Standard Error:	1740000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	2.133766	50.0	486042.0	2.133766	N
2	IC 160-358742/4	2.5	8.013159	50.0	476017.0	3.205264	N
3	IC 160-358742/5	5.0	10.171915	50.0	487160.0	2.034383	Y
4	IC 160-358742/6	10.0	17.045935	50.0	486902.0	1.704594	Y
5	IC 160-358742/7	20.0	33.483877	50.0	485904.0	1.674194	Y
6	ICIS 160-358742/8	50.0	84.930607	50.0	502137.0	1.698612	Y
7	IC 160-358742/9	100.0	173.428954	50.0	501354.0	1.73429	Y
8	IC 160-358742/10	200.0	325.67755	50.0	514759.0	1.628388	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

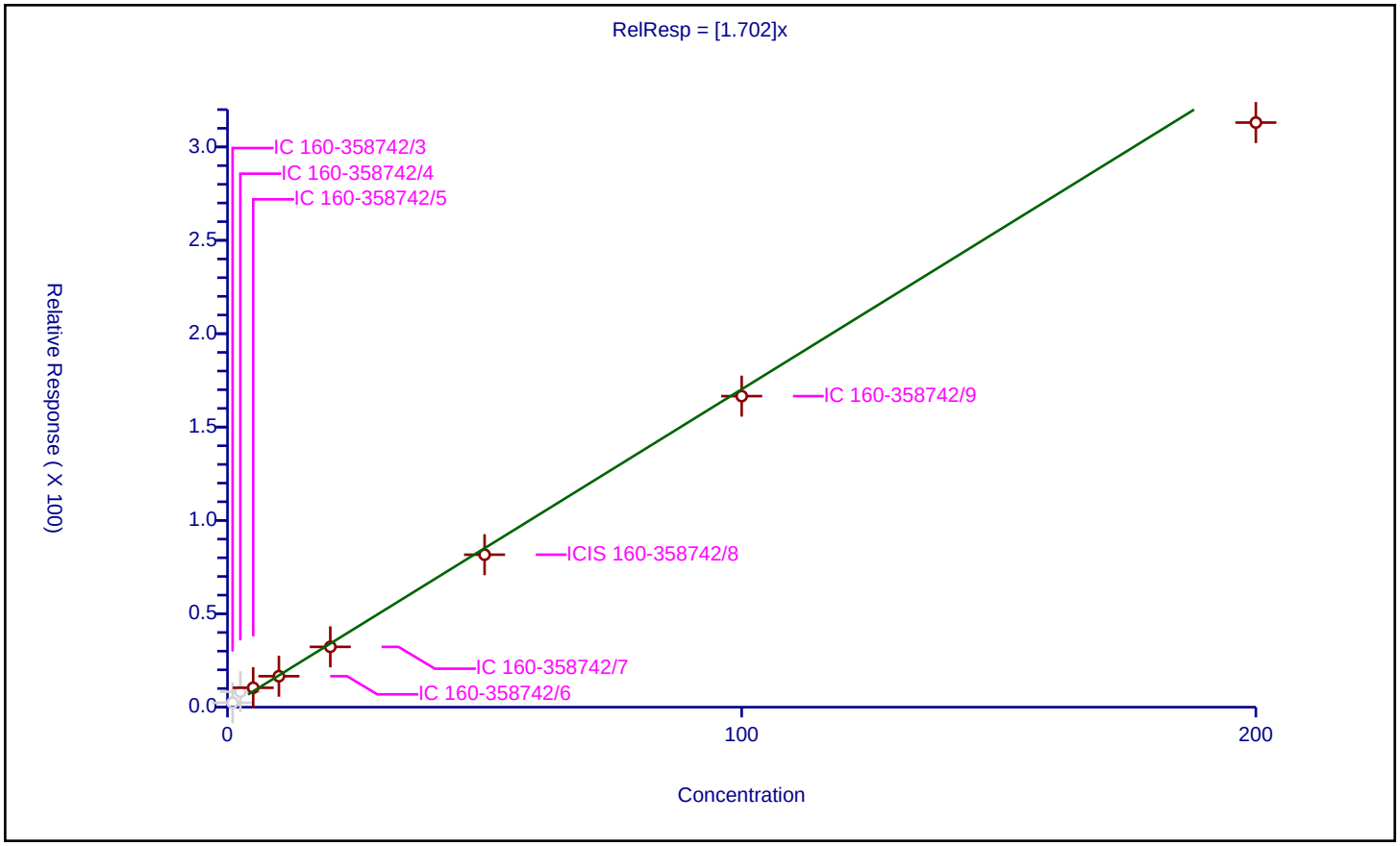
Curve Coefficients

Intercept:	0
Slope:	1.702

Error Coefficients

Standard Error:	1670000
Relative Standard Error:	11.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	2.350003	50.0	486042.0	2.350003	N
2	IC 160-358742/4	2.5	8.286784	50.0	476017.0	3.314714	N
3	IC 160-358742/5	5.0	10.385397	50.0	487160.0	2.077079	Y
4	IC 160-358742/6	10.0	16.581263	50.0	486902.0	1.658126	Y
5	IC 160-358742/7	20.0	32.290226	50.0	485904.0	1.614511	Y
6	ICIS 160-358742/8	50.0	81.648136	50.0	502137.0	1.632963	Y
7	IC 160-358742/9	100.0	166.564543	50.0	501354.0	1.665645	Y
8	IC 160-358742/10	200.0	313.060092	50.0	514759.0	1.5653	Y



Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

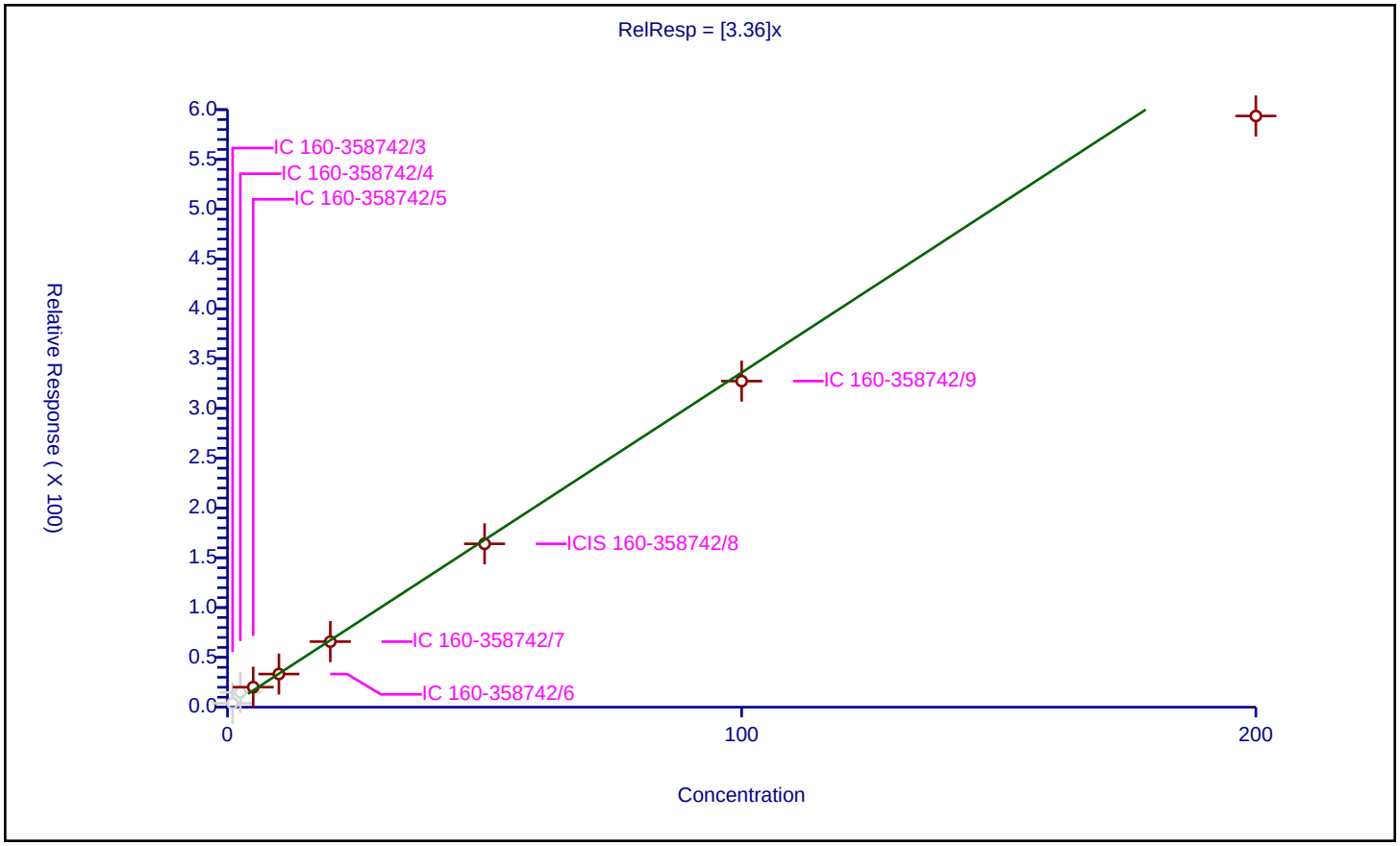
Curve Coefficients

Intercept:	0
Slope:	3.36

Error Coefficients

Standard Error:	3210000
Relative Standard Error:	10.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	3.837528	50.0	486042.0	3.837528	N
2	IC 160-358742/4	2.5	14.885603	50.0	476017.0	5.954241	N
3	IC 160-358742/5	5.0	20.10048	50.0	487160.0	4.020096	Y
4	IC 160-358742/6	10.0	33.267783	50.0	486902.0	3.326778	Y
5	IC 160-358742/7	20.0	65.798903	50.0	485904.0	3.289945	Y
6	ICIS 160-358742/8	50.0	163.997873	50.0	502137.0	3.279957	Y
7	IC 160-358742/9	100.0	327.396111	50.0	501354.0	3.273961	Y
8	IC 160-358742/10	200.0	593.587679	50.0	514759.0	2.967938	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

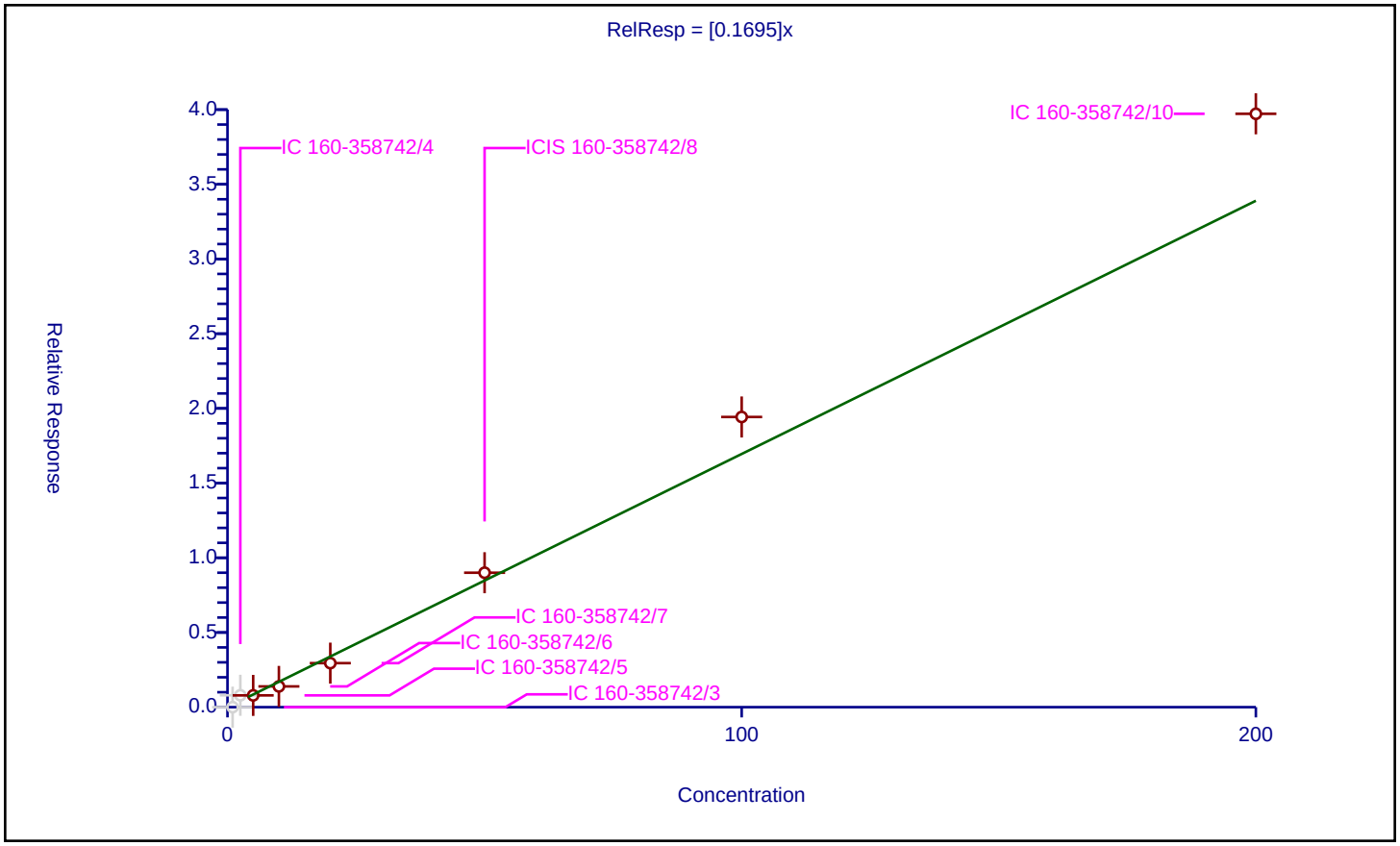
Curve Coefficients

Intercept:	0
Slope:	0.1695

Error Coefficients

Standard Error:	207000
Relative Standard Error:	14.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	486042.0	0.0	N
2	IC 160-358742/4	2.5	0.79556	50.0	476017.0	0.318224	N
3	IC 160-358742/5	5.0	0.788961	50.0	487160.0	0.157792	Y
4	IC 160-358742/6	10.0	1.389807	50.0	486902.0	0.138981	Y
5	IC 160-358742/7	20.0	2.94657	50.0	485904.0	0.147328	Y
6	ICIS 160-358742/8	50.0	9.000532	50.0	502137.0	0.180011	Y
7	IC 160-358742/9	100.0	19.424498	50.0	501354.0	0.194245	Y
8	IC 160-358742/10	200.0	39.719267	50.0	514759.0	0.198596	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

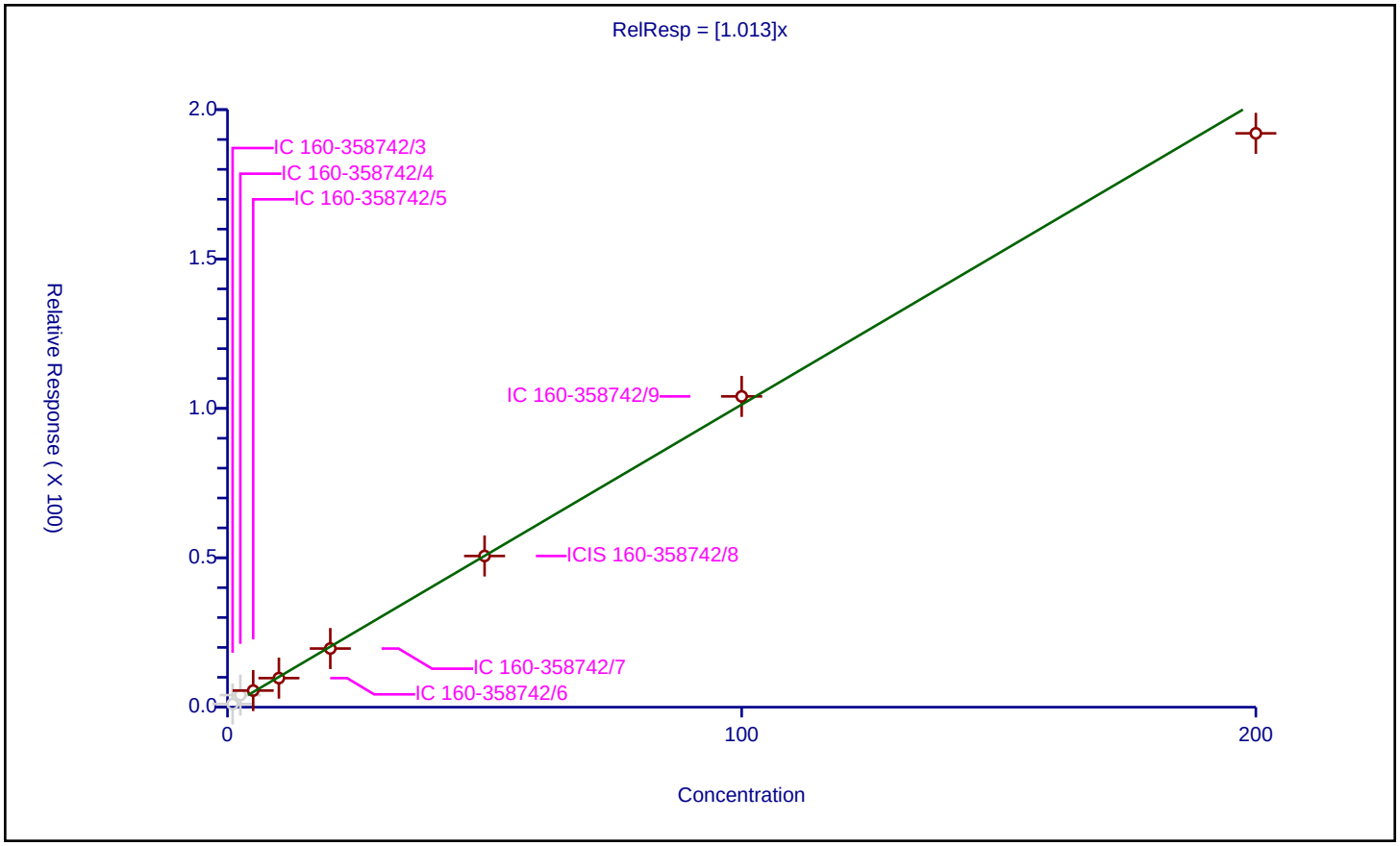
Curve Coefficients

Intercept:	0
Slope:	1.013

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	1.055361	50.0	486042.0	1.055361	N
2	IC 160-358742/4	2.5	4.045444	50.0	476017.0	1.618178	N
3	IC 160-358742/5	5.0	5.551462	50.0	487160.0	1.110292	Y
4	IC 160-358742/6	10.0	9.723004	50.0	486902.0	0.9723	Y
5	IC 160-358742/7	20.0	19.629803	50.0	485904.0	0.98149	Y
6	ICIS 160-358742/8	50.0	50.604218	50.0	502137.0	1.012084	Y
7	IC 160-358742/9	100.0	104.012734	50.0	501354.0	1.040127	Y
8	IC 160-358742/10	200.0	192.061819	50.0	514759.0	0.960309	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

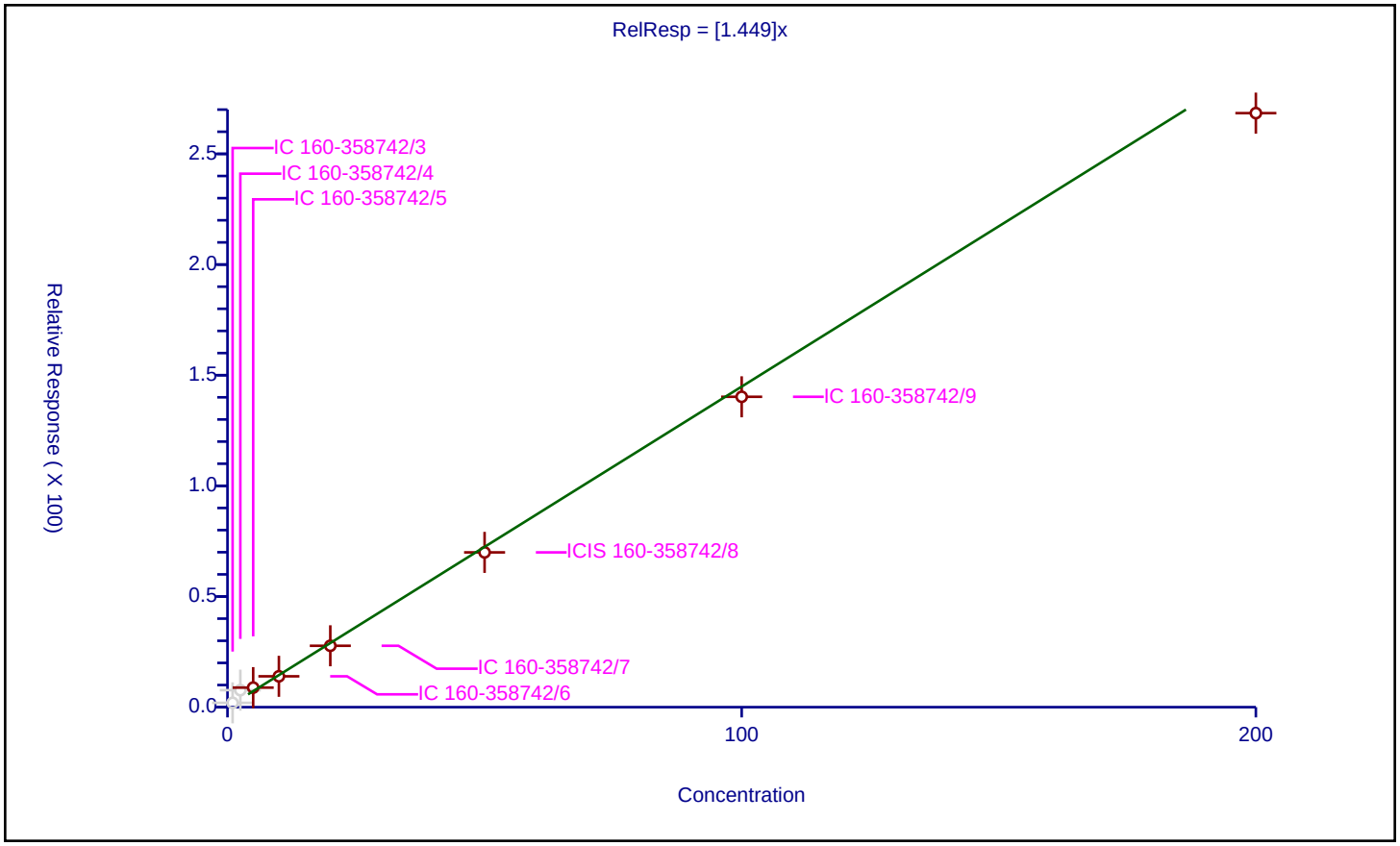
Curve Coefficients

Intercept:	0
Slope:	1.449

Error Coefficients

Standard Error:	1430000
Relative Standard Error:	10.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	1.953432	50.0	486042.0	1.953432	N
2	IC 160-358742/4	2.5	7.690167	50.0	476017.0	3.076067	N
3	IC 160-358742/5	5.0	8.837856	50.0	487160.0	1.767571	Y
4	IC 160-358742/6	10.0	13.935145	50.0	486902.0	1.393515	Y
5	IC 160-358742/7	20.0	27.733976	50.0	485904.0	1.386699	Y
6	ICIS 160-358742/8	50.0	69.939678	50.0	502137.0	1.398794	Y
7	IC 160-358742/9	100.0	140.239033	50.0	501354.0	1.40239	Y
8	IC 160-358742/10	200.0	268.411431	50.0	514759.0	1.342057	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

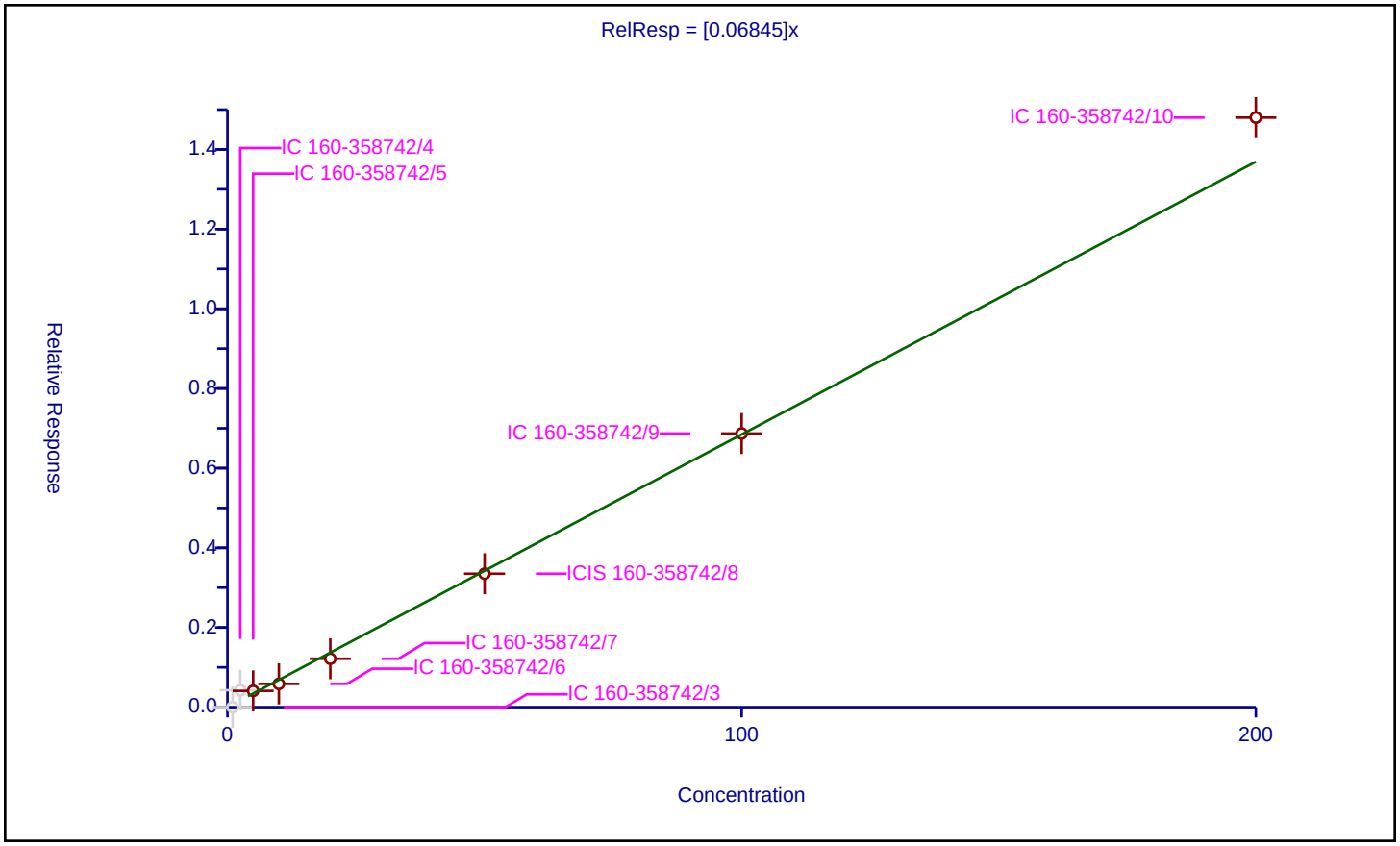
Curve Coefficients

Intercept:	0
Slope:	0.06845

Error Coefficients

Standard Error:	76500
Relative Standard Error:	12.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	486042.0	0.0	N
2	IC 160-358742/4	2.5	0.425195	50.0	476017.0	0.170078	N
3	IC 160-358742/5	5.0	0.409106	50.0	487160.0	0.081821	Y
4	IC 160-358742/6	10.0	0.584615	50.0	486902.0	0.058461	Y
5	IC 160-358742/7	20.0	1.215261	50.0	485904.0	0.060763	Y
6	ICIS 160-358742/8	50.0	3.349385	50.0	502137.0	0.066988	Y
7	IC 160-358742/9	100.0	6.869298	50.0	501354.0	0.068693	Y
8	IC 160-358742/10	200.0	14.79945	50.0	514759.0	0.073997	Y



Calibration / n-Nonyl Aldehyde

Curve Type:	Quadratic
Weighting:	None
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

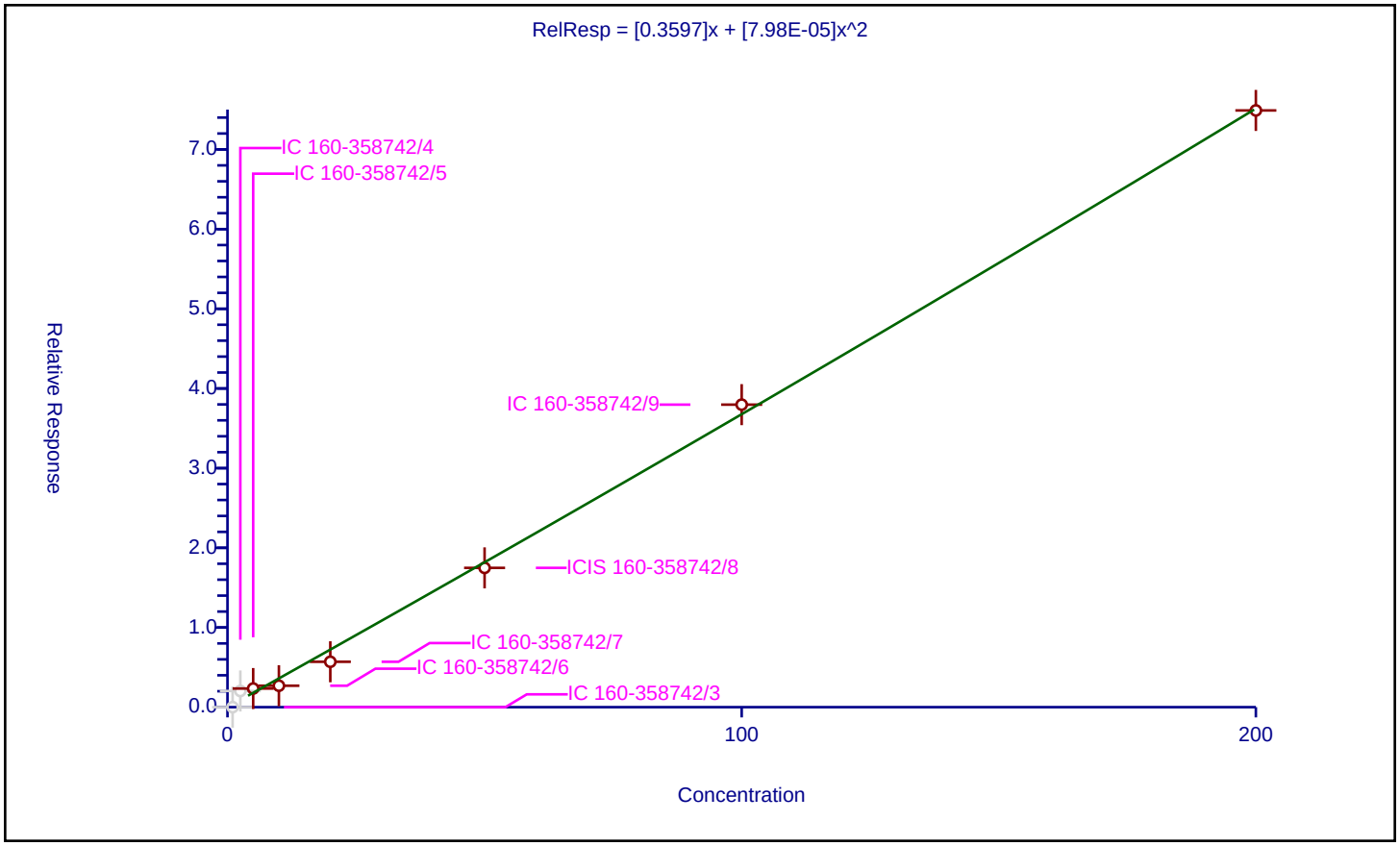
Curve Coefficients

Intercept:	0
Slope:	0.3597
Second Order:	7.98E-05

Error Coefficients

Standard Error:	440000
Relative Standard Error:	22.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.0	50.0	486042.0	0.0	N
2	IC 160-358742/4	2.5	2.033016	50.0	476017.0	0.813206	N
3	IC 160-358742/5	5.0	2.338451	50.0	487160.0	0.46769	Y
4	IC 160-358742/6	10.0	2.690274	50.0	486902.0	0.269027	Y
5	IC 160-358742/7	20.0	5.696496	50.0	485904.0	0.284825	Y
6	ICIS 160-358742/8	50.0	17.48248	50.0	502137.0	0.34965	Y
7	IC 160-358742/9	100.0	37.968282	50.0	501354.0	0.379683	Y
8	IC 160-358742/10	200.0	74.895922	50.0	514759.0	0.37448	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

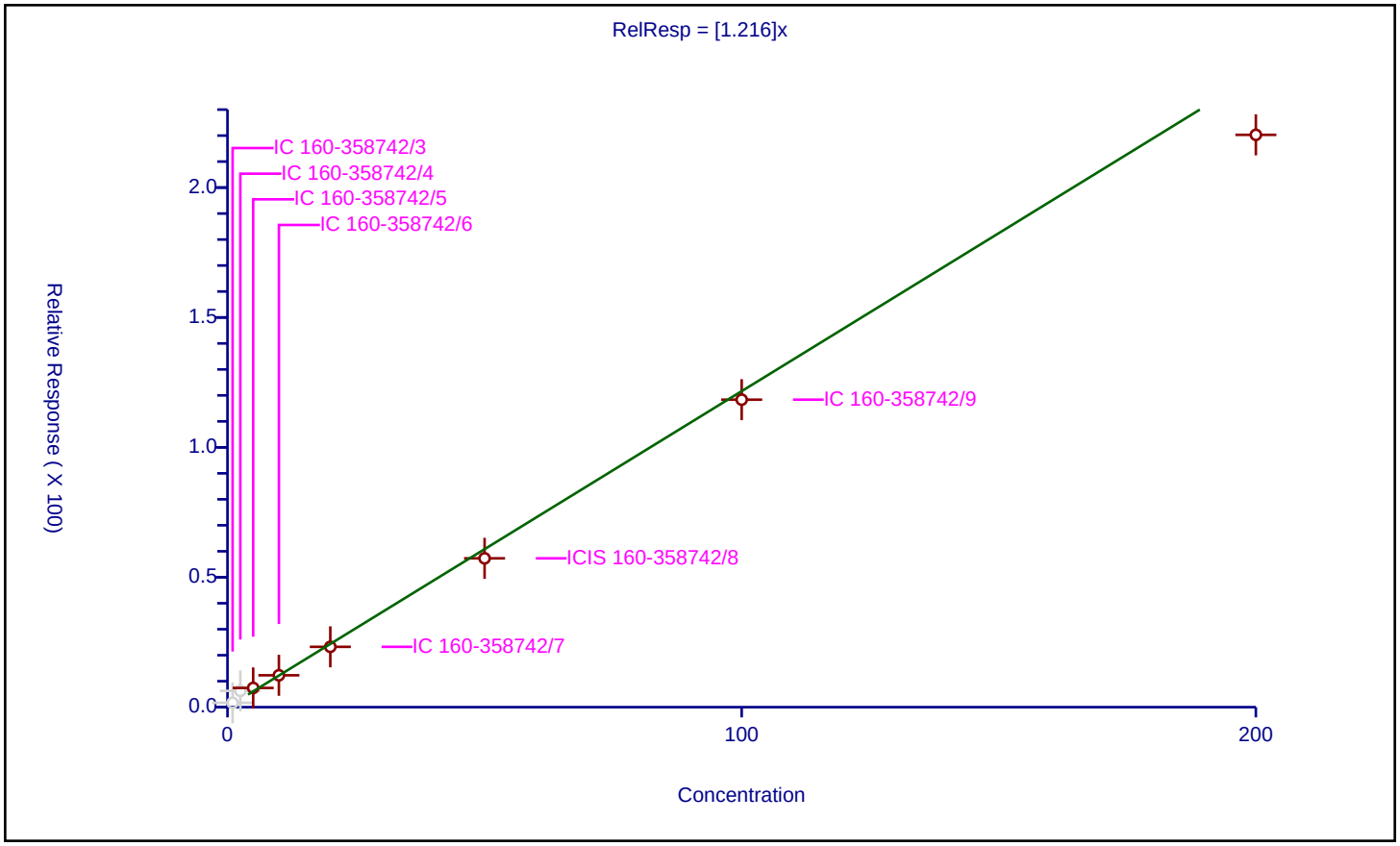
Curve Coefficients

Intercept:	0
Slope:	1.216

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	11.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	1.676398	50.0	486042.0	1.676398	N
2	IC 160-358742/4	2.5	6.275721	50.0	476017.0	2.510288	N
3	IC 160-358742/5	5.0	7.396338	50.0	487160.0	1.479268	Y
4	IC 160-358742/6	10.0	12.26561	50.0	486902.0	1.226561	Y
5	IC 160-358742/7	20.0	23.224958	50.0	485904.0	1.161248	Y
6	ICIS 160-358742/8	50.0	57.284864	50.0	502137.0	1.145697	Y
7	IC 160-358742/9	100.0	118.351305	50.0	501354.0	1.183513	Y
8	IC 160-358742/10	200.0	220.288912	50.0	514759.0	1.101445	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

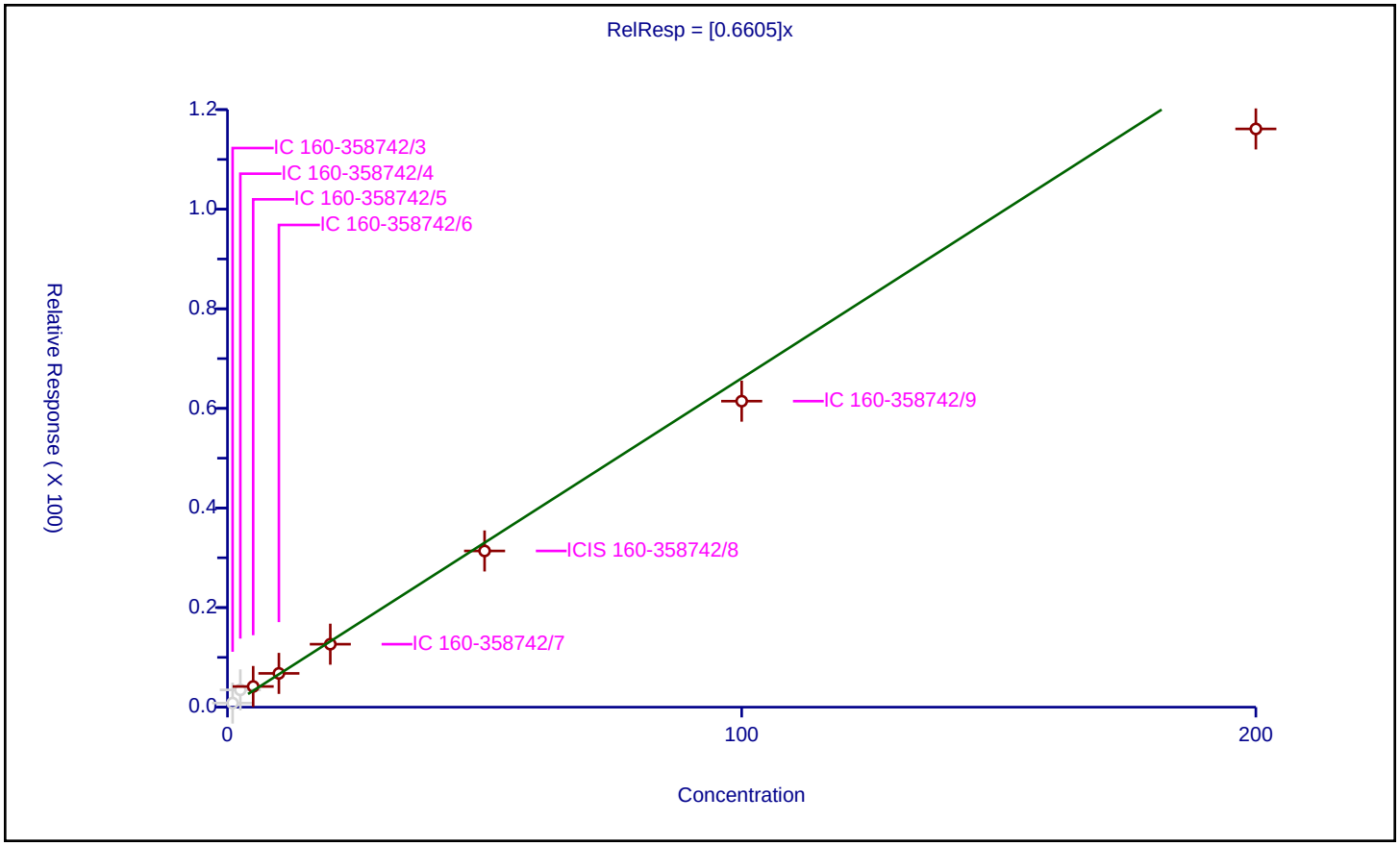
Curve Coefficients

Intercept:	0
Slope:	0.6605

Error Coefficients

Standard Error:	621000
Relative Standard Error:	13.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.964

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	0.821431	50.0	486042.0	0.821431	N
2	IC 160-358742/4	2.5	3.47162	50.0	476017.0	1.388648	N
3	IC 160-358742/5	5.0	4.149561	50.0	487160.0	0.829912	Y
4	IC 160-358742/6	10.0	6.784322	50.0	486902.0	0.678432	Y
5	IC 160-358742/7	20.0	12.647046	50.0	485904.0	0.632352	Y
6	ICIS 160-358742/8	50.0	31.370921	50.0	502137.0	0.627418	Y
7	IC 160-358742/9	100.0	61.45139	50.0	501354.0	0.614514	Y
8	IC 160-358742/10	200.0	116.121525	50.0	514759.0	0.580608	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

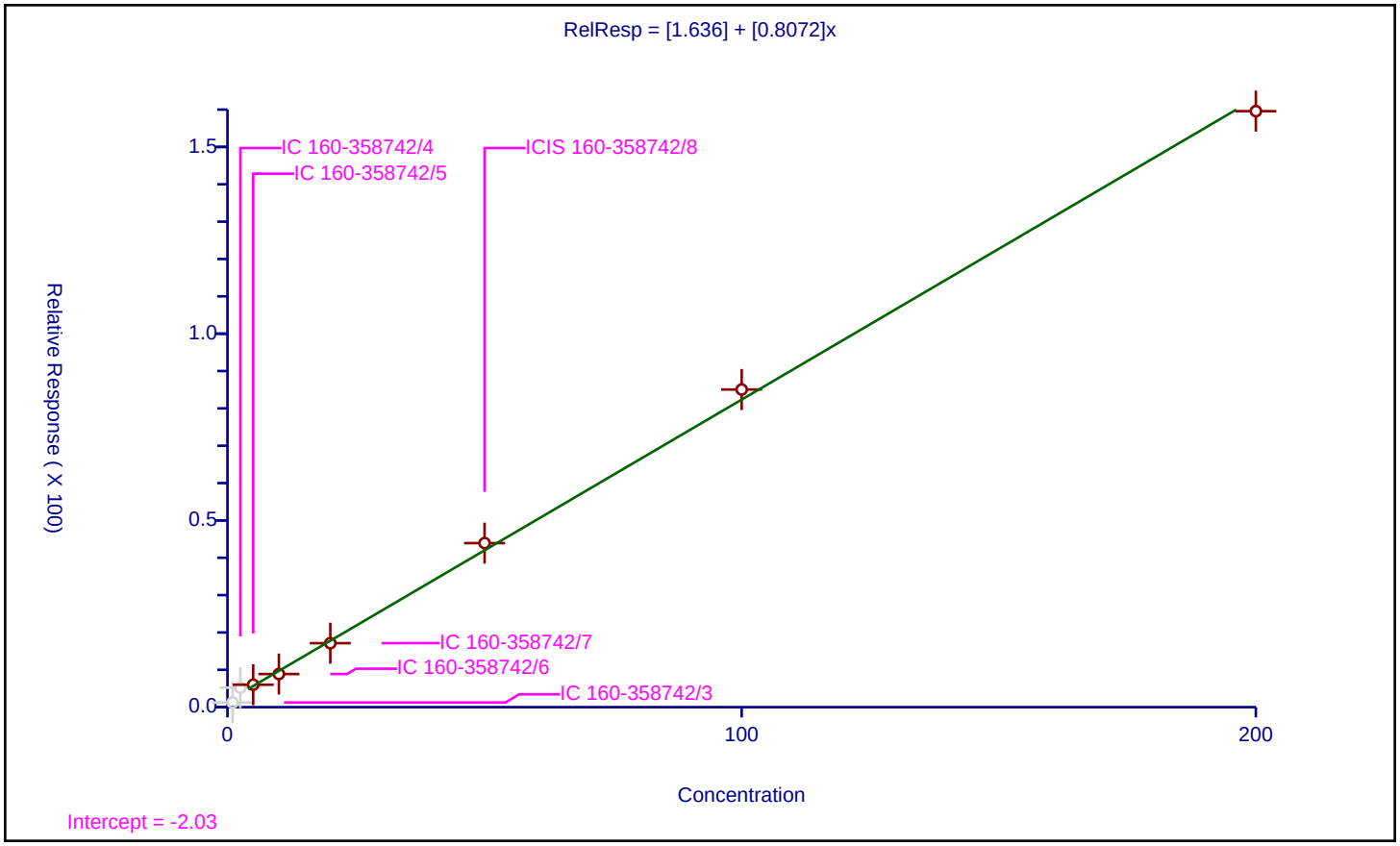
Curve Coefficients

Intercept:	1.636
Slope:	0.8072

Error Coefficients

Standard Error:	956000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	1.245777	50.0	486042.0	1.245777	N
2	IC 160-358742/4	2.5	5.210318	50.0	476017.0	2.084127	N
3	IC 160-358742/5	5.0	6.009422	50.0	487160.0	1.201884	Y
4	IC 160-358742/6	10.0	8.875195	50.0	486902.0	0.887519	Y
5	IC 160-358742/7	20.0	17.132808	50.0	485904.0	0.85664	Y
6	ICIS 160-358742/8	50.0	43.930541	50.0	502137.0	0.878611	Y
7	IC 160-358742/9	100.0	85.052378	50.0	501354.0	0.850524	Y
8	IC 160-358742/10	200.0	159.585651	50.0	514759.0	0.797928	Y



Calibration / Naphthalene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

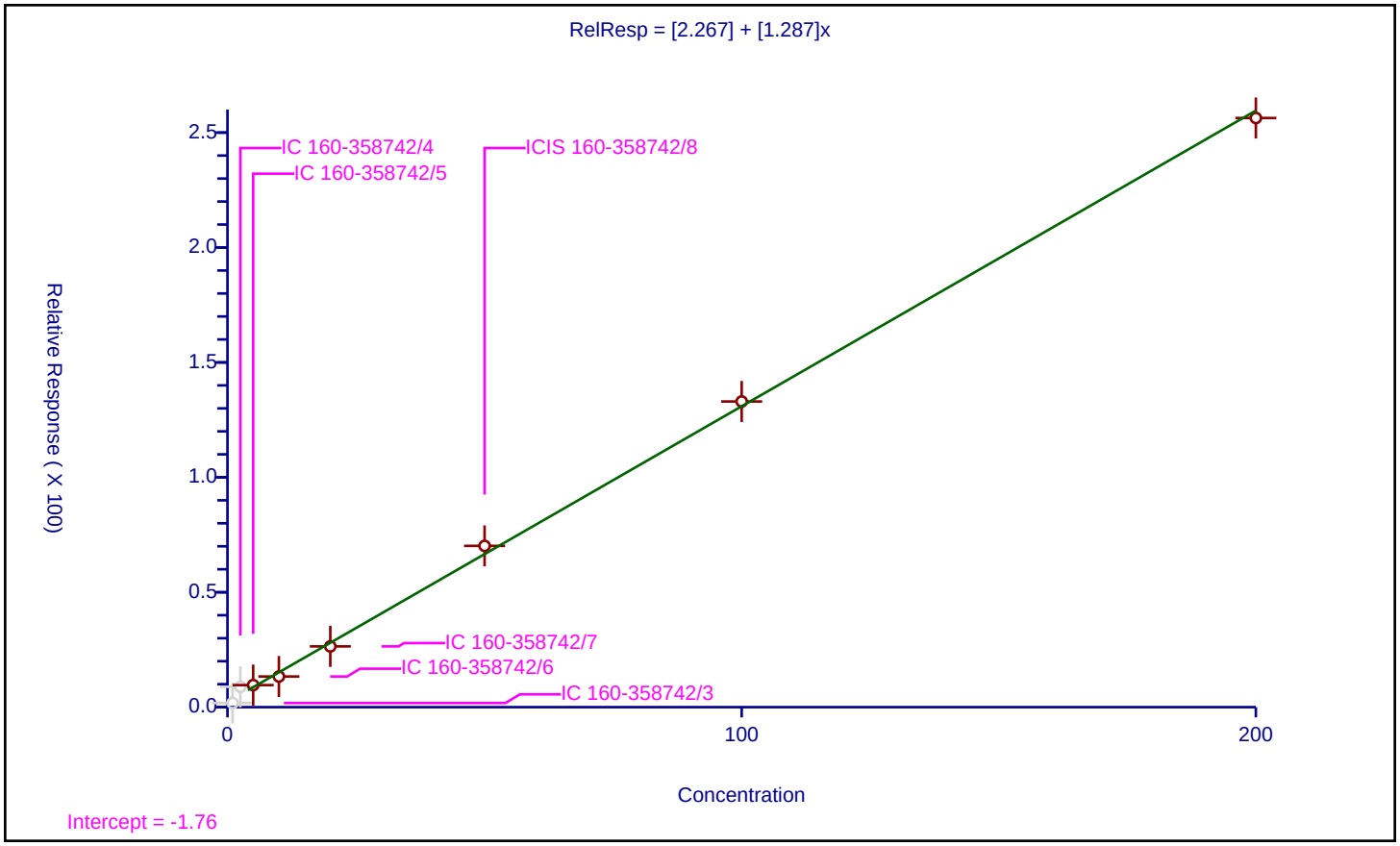
Curve Coefficients

Intercept:	2.267
Slope:	1.287

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	10.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	1.806223	50.0	486042.0	1.806223	N
2	IC 160-358742/4	2.5	8.86565	50.0	476017.0	3.54626	N
3	IC 160-358742/5	5.0	9.602081	50.0	487160.0	1.920416	Y
4	IC 160-358742/6	10.0	13.34057	50.0	486902.0	1.334057	Y
5	IC 160-358742/7	20.0	26.44082	50.0	485904.0	1.322041	Y
6	ICIS 160-358742/8	50.0	70.179453	50.0	502137.0	1.403589	Y
7	IC 160-358742/9	100.0	133.004823	50.0	501354.0	1.330048	Y
8	IC 160-358742/10	200.0	256.348893	50.0	514759.0	1.281744	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	
RF Rounding:	0

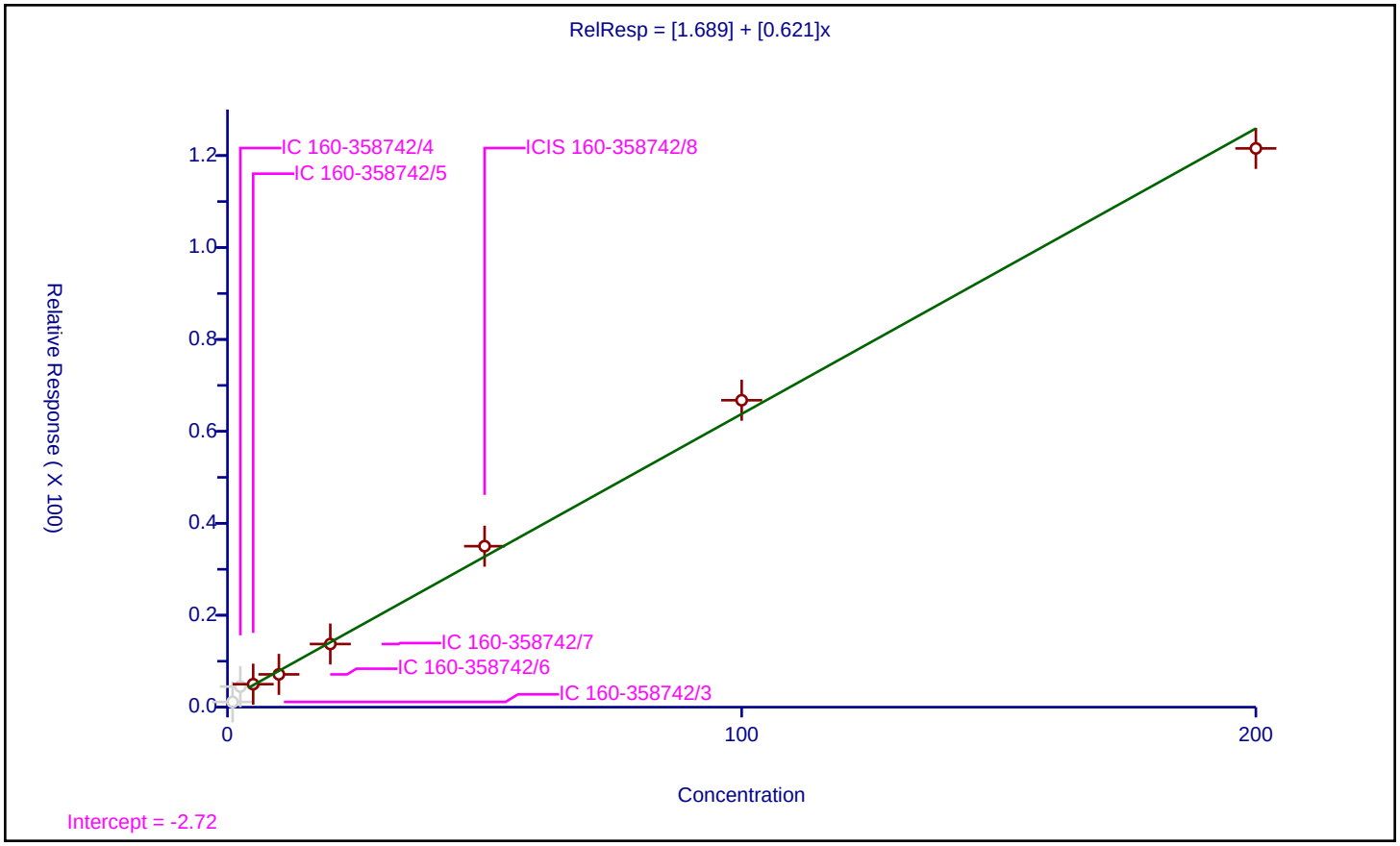
Curve Coefficients

Intercept:	1.689
Slope:	0.621

Error Coefficients

Standard Error:	735000
Relative Standard Error:	8.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 160-358742/3	1.0	1.138585	50.0	486042.0	1.138585	N
2	IC 160-358742/4	2.5	4.482193	50.0	476017.0	1.792877	N
3	IC 160-358742/5	5.0	4.998358	50.0	487160.0	0.999672	Y
4	IC 160-358742/6	10.0	7.138089	50.0	486902.0	0.713809	Y
5	IC 160-358742/7	20.0	13.738002	50.0	485904.0	0.6869	Y
6	ICIS 160-358742/8	50.0	35.020921	50.0	502137.0	0.700418	Y
7	IC 160-358742/9	100.0	66.772879	50.0	501354.0	0.667729	Y
8	IC 160-358742/10	200.0	121.561255	50.0	514759.0	0.607806	Y



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Lab Sample ID (1): ICIS 160-358742/8 Instrument ID (1): VMSX

GC Column (1): RTXVMS30 ID: 0.25(mm) Date Analyzed (1): 04/03/2018 23:58

ANALYTE	RT	RESOLUTION (%)
Dichlorodifluoromethane	1.88	100.0
Chloromethane	2.09	100.0
Vinyl chloride	2.20	100.0
Bromomethane	2.58	100.0
Chloroethane	2.74	100.0
Trichlorofluoromethane	2.91	100.0
1,1-Dichloroethene	3.59	100.0
Carbon disulfide	3.61	100.0
Methylene Chloride	4.52	100.0
Acetone	4.63	100.0
trans-1,2-Dichloroethene	4.78	100.0
Methyl tert-butyl ether	5.00	100.0
1,1-Dichloroethane	5.75	100.0
cis-1,2-Dichloroethene	6.54	100.0
2,2-Dichloropropane	6.68	100.0
Bromochloromethane	6.81	100.0
Chloroform	6.94	100.0
Carbon tetrachloride	7.08	100.0
Dibromofluoromethane (Surr)	7.18	100.0
1,1,1-Trichloroethane	7.19	100.0
1,1-Dichloropropene	7.36	100.0
2-Butanone (MEK)	7.38	100.0
Benzene	7.69	100.0
1,2-Dichloroethane-d4 (Surr)	7.88	100.0
1,2-Dichloroethane	7.96	100.0
Trichloroethene	8.46	100.0
Dibromomethane	8.99	100.0
1,2-Dichloropropane	9.12	100.0
Bromodichloromethane	9.21	100.0
cis-1,3-Dichloropropene	10.01	100.0
Toluene-d8 (Surr)	10.23	100.0
Toluene	10.30	100.0
Tetrachloroethene	10.75	100.0
4-Methyl-2-pentanone (MIBK)	10.79	100.0
trans-1,3-Dichloropropene	10.82	100.0
1,1,2-Trichloroethane	11.00	100.0
Dibromochloromethane	11.19	100.0
1,3-Dichloropropane	11.30	100.0
1,2-Dibromoethane	11.43	100.0
2-Hexanone	11.71	100.0
Chlorobenzene	12.00	100.0
Ethylbenzene	12.03	100.0
1,1,1,2-Tetrachloroethane	12.07	100.0
m,p-Xylenes	12.18	100.0
o-Xylene	12.60	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Lab Sample ID (1): ICIS 160-358742/8 Instrument ID (1): VMSX

GC Column (1): RTXVMS30 ID: 0.25(mm) Date Analyzed (1): 04/03/2018 23:58

ANALYTE	RT	RESOLUTION (%)
Styrene	12.66	100.0
Bromoform	12.67	100.0
Isopropylbenzene	12.91	100.0
4-Bromofluorobenzene (Surr)	13.17	100.0
Bromobenzene	13.26	100.0
N-Propylbenzene	13.30	100.0
1,1,2,2-Tetrachloroethane	13.37	100.0
2-Chlorotoluene	13.44	100.0
1,3,5-Trimethylbenzene	13.47	100.0
1,2,3-Trichloropropane	13.49	100.0
4-Chlorotoluene	13.59	100.0
tert-Butylbenzene	13.77	100.0
1,2,4-Trimethylbenzene	13.83	100.0
sec-Butylbenzene	13.92	100.0
p-Isopropyltoluene	14.05	100.0
n-Butylbenzene	14.42	100.0
1,2-Dibromo-3-Chloropropane	15.26	100.0
Naphthalene	16.10	100.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Lab Sample ID: ICV 160-358742/13 Calibration Date: 04/04/2018 02:04

Instrument ID: VMSX Calib Start Date: 04/03/2018 21:52

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 04/04/2018 00:48

Lab File ID: XICV1628.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	0.3259	0.3073	0.1000	47.1	50.0	-5.7	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1340	0.1424	0.0100	53.1	50.0	6.3	20.0
Chloromethane	Ave	0.3636	0.3278	0.1000	45.1	50.0	-9.9	20.0
Vinyl chloride	Ave	0.3862	0.3397	0.1000	44.0	50.0	-12.0	20.0
Butadiene	Ave	0.1890	0.1693	0.0100	44.8	50.0	-10.4	20.0
Bromomethane	Ave	0.1658	0.1537	0.1000	46.3	50.0	-7.3	20.0
Chloroethane	Lin1		0.1103	0.1000	42.3	50.0	-15.4	20.0
Trichlorofluoromethane	Ave	0.3595	0.3264	0.1000	45.4	50.0	-9.2	20.0
Dichlorofluoromethane	Ave	0.3773	0.3408	0.0100	45.2	50.0	-9.7	20.0
Ethyl ether	Ave	0.1232	0.1198	0.0100	48.6	50.0	-2.7	20.0
1,1-Dichloroethene	Ave	0.2671	0.2522	0.1000	47.2	50.0	-5.6	20.0
Carbon disulfide	Ave	0.9093	0.8467	0.1000	46.6	50.0	-6.9	20.0
Ethanol	Ave	0.0011	0.0011*	0.0100	1930	2000	-3.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1920	0.1813	0.1000	47.2	50.0	-5.6	20.0
Iodomethane	Ave	0.3524	0.3334	0.0100	47.3	50.0	-5.4	20.0
Acrolein	Ave	0.0182	0.0169	0.0010	232	250	-7.0	20.0
3-Chloro-1-propene	Ave	0.2288	0.2113	0.0100	46.2	50.0	-7.6	20.0
Isopropyl alcohol	Qua		0.0062*	0.0100	522	500	4.4	20.0
Methylene Chloride	Ave	0.2463	0.2280	0.1000	46.3	50.0	-7.4	20.0
Acetone	Ave	0.0262	0.0240*	0.1000	45.7	50.0	-8.5	20.0
trans-1,2-Dichloroethene	Ave	0.2900	0.2759	0.1000	47.6	50.0	-4.9	20.0
Methyl acetate	Ave	0.0072	0.0070*	0.1000	245	250	-2.0	20.0
Hexane	Ave	0.0971	0.0946	0.0100	48.7	50.0	-2.7	20.0
Methyl tert-butyl ether	Ave	0.4409	0.4252	0.1000	48.2	50.0	-3.6	20.0
2-Methyl-2-propanol	Qua		0.0120	0.0100	555	500	11.0	20.0
Acetonitrile	Ave	0.0113	0.0109	0.0010	482	500	-3.6	20.0
Isopropyl ether	Ave	0.6997	0.6742	0.0100	48.2	50.0	-3.6	20.0
2-Chloro-1,3-butadiene	Ave	0.4672	0.4431	0.0100	47.4	50.0	-5.2	20.0
1,1-Dichloroethane	Ave	0.5230	0.4914	0.2000	47.0	50.0	-6.0	20.0
Acrylonitrile	Ave	0.0437	0.0422	0.0100	483	500	-3.3	20.0
Tert-butyl ethyl ether	Ave	0.6934	0.6599	0.0100	47.6	50.0	-4.8	20.0
Vinyl acetate	Ave	0.3039	0.2834	0.0100	46.6	50.0	-6.8	20.0
2,2-Dichloropropane	Ave	0.3271	0.2981	0.0100	45.6	50.0	-8.9	20.0
Cyclohexane	Ave	0.5022	0.4772	0.1000	47.5	50.0	-5.0	20.0
Bromochloromethane	Ave	0.0900	0.0857	0.0100	47.6	50.0	-4.7	20.0
Chloroform	Ave	0.4497	0.4270	0.2000	47.5	50.0	-5.1	20.0
Carbon tetrachloride	Ave	0.3391	0.3202	0.1000	47.2	50.0	-5.6	20.0
Ethyl acetate	Ave	0.0138	0.0144	0.0100	104	100	4.3	20.0
1,1,1-Trichloroethane	Ave	0.4183	0.4034	0.1000	48.2	50.0	-3.6	20.0
1,1-Dichloropropene	Ave	0.4093	0.3859	0.0100	47.1	50.0	-5.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Lab Sample ID: ICV 160-358742/13 Calibration Date: 04/04/2018 02:04

Instrument ID: VMSX Calib Start Date: 04/03/2018 21:52

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 04/04/2018 00:48

Lab File ID: XICV1628.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	0.0427	0.0412*	0.1000	48.3	50.0	-3.4	20.0
Isooctane	Ave	1.400	1.333	0.0100	47.6	50.0	-4.8	20.0
Benzene	Ave	1.168	1.071	0.5000	45.8	50.0	-8.3	20.0
n-Heptane	Ave	0.4707	0.4356	0.0100	46.3	50.0	-7.5	20.0
Propionitrile	Ave	0.0164	0.0162	0.0010	493	500	-1.4	20.0
Methacrylonitrile	Ave	0.0603	0.0570	0.0100	473	500	-5.5	20.0
Tert-amyl methyl ether	Ave	0.5121	0.5002	0.0100	48.8	50.0	-2.3	20.0
1,2-Dichloroethane	Ave	0.2598	0.2418	0.1000	46.5	50.0	-6.9	20.0
Isobutyl alcohol	LinF		0.0026	0.0010	1190	1250	-5.1	20.0
Methylcyclohexane	Ave	0.4988	0.4549	0.1000	45.6	50.0	-8.8	20.0
Trichloroethene	Ave	0.2919	0.2765	0.2000	47.4	50.0	-5.3	20.0
n-Butanol	Qua		0.0034*	0.0100	1260	1250	0.7	20.0
Dibromomethane	Ave	0.0984	0.0955	0.0100	48.5	50.0	-3.0	20.0
1,2-Dichloropropane	Ave	0.2632	0.2678	0.1000	50.9	50.0	1.7	20.0
Ethyl acrylate	Ave	0.1697	0.1752	0.0100	51.6	50.0	3.2	20.0
Bromodichloromethane	Ave	0.2895	0.2903	0.2000	50.1	50.0	0.3	20.0
Methyl methacrylate	Ave	0.0939	0.0982	0.0100	105	100	4.6	20.0
1,4-Dioxane	Ave	0.0011	0.0012	0.0010	1080	1000	7.9	20.0
2-Chloroethyl vinyl ether	Ave	0.0868	0.0916	0.0100	52.8	50.0	5.5	20.0
cis-1,3-Dichloropropene	Ave	0.3355	0.3568	0.2000	53.2	50.0	6.3	20.0
Toluene	Ave	1.193	1.172	0.4000	49.1	50.0	-1.8	20.0
2-Nitropropane	Qua		0.0391	0.0100	97.7	100	-2.3	20.0
Tetrachloroethene	Ave	0.3667	0.3559	0.2000	48.5	50.0	-3.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1528	0.1563	0.1000	51.2	50.0	2.3	20.0
trans-1,3-Dichloropropene	Ave	0.4424	0.4581	0.1000	51.8	50.0	3.5	20.0
1,1,2-Trichloroethane	Ave	0.2140	0.2246	0.1000	52.5	50.0	5.0	20.0
Ethyl methacrylate	Ave	0.3057	0.3283	0.0100	53.7	50.0	7.4	20.0
Dibromochloromethane	Ave	0.2538	0.2711	0.1000	53.4	50.0	6.8	20.0
1,3-Dichloropropane	Ave	0.4738	0.4674	0.0100	49.3	50.0	-1.4	20.0
1,2-Dibromoethane	Ave	0.2119	0.2179	0.1000	51.4	50.0	2.9	20.0
n-Butyl acetate	Ave	0.2746	0.2895	0.0100	52.7	50.0	5.4	20.0
2-Hexanone	Ave	0.1075	0.1141	0.1000	53.1	50.0	6.1	20.0
1-Chlorohexane	Ave	0.8397	0.8653	0.0100	51.5	50.0	3.0	20.0
Chlorobenzene	Ave	1.128	1.142	0.5000	50.6	50.0	1.2	20.0
Ethylbenzene	Ave	2.324	2.247	0.1000	48.3	50.0	-3.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3272	0.3356	0.0100	51.3	50.0	2.6	20.0
m,p-Xylenes	Ave	0.8470	0.8462	0.1000	50.0	50.0	-0.0	20.0
o-Xylene	Ave	0.7778	0.7807	0.3000	50.2	50.0	0.4	20.0
Styrene	Ave	1.161	1.179	0.3000	50.8	50.0	1.6	20.0
Bromoform	Ave	0.2748	0.2896	0.1000	52.7	50.0	5.4	20.0
Isopropylbenzene	Ave	4.644	4.914	0.1000	52.9	50.0	5.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Lab Sample ID: ICV 160-358742/13 Calibration Date: 04/04/2018 02:04

Instrument ID: VMSX Calib Start Date: 04/03/2018 21:52

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 04/04/2018 00:48

Lab File ID: XICV1628.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
Bromobenzene	Ave	0.8687	0.8883	0.0100	51.1	50.0	2.3	20.0
N-Propylbenzene	Ave	5.587	5.850	0.0100	52.4	50.0	4.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5846	0.5752	0.3000	49.2	50.0	-1.6	20.0
2-Chlorotoluene	Ave	3.203	3.257	0.0100	50.8	50.0	1.7	20.0
1,3,5-Trimethylbenzene	Ave	3.639	3.734	0.0100	51.3	50.0	2.6	20.0
1,2,3-Trichloropropane	Ave	0.1654	0.1683	0.0100	50.9	50.0	1.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1616	0.1617	0.0100	50.1	50.0	0.1	20.0
Cyclohexanone	Qua		0.0122	0.0010	483	500	-3.3	20.0
4-Chlorotoluene	Ave	3.196	3.298	0.0100	51.6	50.0	3.2	20.0
tert-Butylbenzene	Ave	3.144	3.225	0.0100	51.3	50.0	2.6	20.0
1,2,4-Trimethylbenzene	Ave	3.597	3.640	0.0100	50.6	50.0	1.2	20.0
sec-Butylbenzene	Ave	4.979	5.087	0.0100	51.1	50.0	2.2	20.0
p-Isopropyltoluene	Ave	3.912	4.075	0.0100	52.1	50.0	4.2	20.0
1,3-Dichlorobenzene	Ave	1.746	1.742	0.6000	49.9	50.0	-0.2	20.0
1,4-Dichlorobenzene	Ave	1.702	1.703	0.5000	50.0	50.0	0.0	20.0
1,2,3-Trimethylbenzene	Ave	3.360	3.338	0.0100	49.7	50.0	-0.6	20.0
Benzyl chloride	Ave	0.1695	0.1643	0.0100	48.5	50.0	-3.1	20.0
n-Butylbenzene	Ave	1.013	1.024	0.0100	50.6	50.0	1.2	20.0
1,2-Dichlorobenzene	Ave	1.449	1.447	0.4000	49.9	50.0	-0.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0685	0.0698	0.0500	51.0	50.0	2.0	20.0
n-Nonyl Aldehyde	QuaF		0.3503	0.0100	48.2	50.0	-3.7	20.0
1,3,5-Trichlorobenzene	Ave	1.216	1.167	0.0100	48.0	50.0	-4.0	20.0
Hexachlorobutadiene	Ave	0.6605	0.6398	0.0100	48.4	50.0	-3.1	20.0
1,2,4-Trichlorobenzene	Lin1		0.8772	0.2000	52.3	50.0	4.6	20.0
Naphthalene	Lin1		1.398	0.0100	52.6	50.0	5.1	20.0
1,2,3-Trichlorobenzene	Lin1		0.7006	0.0100	53.7	50.0	7.4	20.0
Dibromofluoromethane (Surr)	Ave	0.1926	0.1909	0.0100	49.6	50.0	-0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1967	0.1876	0.0100	47.7	50.0	-4.6	20.0
Toluene-d8 (Surr)	Ave	1.592	1.558	0.0100	49.0	50.0	-2.1	20.0
4-Bromofluorobenzene (Surr)	Ave	1.148	1.146	0.0100	49.9	50.0	-0.2	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICV1628.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 04-Apr-2018 02:04:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012973-013
Misc. Info.: ICV
Operator ID: JDH Instrument ID: VMSX
Sublist:

Method: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:32:53 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 15:11:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.877	1.877	0.000	99	613973	50.0	47.1	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	284563	50.0	53.1	
3 Chloromethane	50	2.090	2.090	0.000	98	654849	50.0	45.1	
4 Vinyl chloride	62	2.197	2.197	0.000	98	678668	50.0	44.0	
121 Butadiene	39	2.221	2.209	0.012	79	338293	50.0	44.8	
5 Bromomethane	94	2.576	2.576	0.000	90	307096	50.0	46.3	
6 Chloroethane	64	2.741	2.741	0.000	98	220457	50.0	42.3	
7 Trichlorofluoromethane	101	2.907	2.907	0.000	98	652035	50.0	45.4	
122 Dichlorofluoromethane	67	3.002	3.001	0.001	96	680852	50.0	45.2	
8 Ethyl ether	74	3.345	3.345	0.000	87	239399	50.0	48.6	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	95	503892	50.0	47.2	
11 Ethanol	45	3.605	3.605	0.000	24	86216	2000.0	1925.4	
10 Carbon disulfide	76	3.605	3.605	0.000	98	1691539	50.0	46.6	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	95	362183	50.0	47.2	
13 Iodomethane	142	3.783	3.782	0.001	99	666044	50.0	47.3	
14 Acrolein	56	4.126	4.126	0.000	99	168765	250.0	232.4	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	94	422205	50.0	46.2	
16 Isopropyl alcohol	45	4.492	4.492	0.000	98	124491	500.0	521.9	
17 Methylene Chloride	84	4.516	4.516	0.000	92	455601	50.0	46.3	
18 Acetone	43	4.634	4.634	0.000	94	47926	50.0	45.7	
19 trans-1,2-Dichloroethene	96	4.788	4.776	0.012	97	551137	50.0	47.6	
20 Methyl acetate	74	4.859	4.859	0.000	97	70169	250.0	245.1	
21 Hexane	86	4.930	4.930	0.000	80	188909	50.0	48.7	
22 Methyl tert-butyl ether	73	5.001	5.001	0.000	90	849524	50.0	48.2	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	99	240035	500.0	555.0	
24 Acetonitrile	41	5.368	5.368	0.000	99	216802	500.0	482.0	
25 Isopropyl ether	45	5.628	5.628	0.000	95	1346932	50.0	48.2	
27 2-Chloro-1,3-butadiene	53	5.711	5.711	0.000	90	885343	50.0	47.4	
28 1,1-Dichloroethane	63	5.747	5.747	0.000	96	981857	50.0	47.0	
29 Acrylonitrile	53	5.853	5.853	0.000	100	843327	500.0	483.3	

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	6.173	6.173	0.000	98	1318435	50.0	47.6	
31 Vinyl acetate	43	6.185	6.185	0.000	97	566132	50.0	46.6	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	81	545555	50.0	46.9	
33 2,2-Dichloropropane	77	6.682	6.682	0.000	86	595622	50.0	45.6	
34 Cyclohexane	84	6.788	6.788	0.000	86	953403	50.0	47.5	
35 Chlorobromomethane	128	6.812	6.812	0.000	97	171246	50.0	47.6	
36 Chloroform	83	6.942	6.942	0.000	93	853008	50.0	47.5	
37 Carbon tetrachloride	117	7.084	7.084	0.000	97	639646	50.0	47.2	
39 Ethyl acetate	45	7.155	7.155	0.000	99	57694	100.0	104.3	
38 Tetrahydrofuran	71	7.155	7.155	0.000	89	50946	100.0	97.6	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.012	93	381413	50.0	49.6	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	98	805982	50.0	48.2	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	99	771000	50.0	47.1	
43 2-Butanone (MEK)	43	7.380	7.380	0.000	99	82335	50.0	48.3	
124 Isooctane	57	7.522	7.522	0.000	93	2663102	50.0	47.6	
117 n-Heptane	43	7.687	7.687	0.000	68	870264	50.0	46.3	
44 Benzene	78	7.687	7.687	0.000	96	2139697	50.0	45.8	
45 Propionitrile	54	7.758	7.758	0.000	96	323552	500.0	492.8	
46 Methacrylonitrile	41	7.782	7.782	0.000	83	1137918	500.0	472.5	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	374845	50.0	47.7	
48 Tert-amyl methyl ether	73	7.889	7.888	0.001	98	999418	50.0	48.8	
49 1,2-Dichloroethane	62	7.960	7.959	0.001	98	483009	50.0	46.5	
50 Isobutyl alcohol	42	8.090	8.090	0.000	96	131004	1250.0	1186.0	
* 51 Fluorobenzene	96	8.244	8.243	0.001	99	1997906	50.0	50.0	
52 Methylcyclohexane	55	8.421	8.421	0.000	88	908894	50.0	45.6	
53 Trichloroethene	95	8.457	8.456	0.001	96	552441	50.0	47.4	
54 n-Butanol	56	8.977	8.977	0.000	80	171173	1250.0	1258.3	
55 Dibromomethane	93	8.989	8.989	0.000	97	190789	50.0	48.5	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	96	535033	50.0	50.9	
123 Ethyl acrylate	55	9.202	9.202	0.000	97	349926	50.0	51.6	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	579966	50.0	50.1	
58 Methyl methacrylate	69	9.450	9.450	0.000	87	392265	100.0	104.6	
59 1,4-Dioxane	88	9.486	9.486	0.000	94	48561	1000.0	1078.9	
60 2-Chloroethyl vinyl ether	63	9.959	9.959	0.000	89	182927	50.0	52.8	
61 cis-1,3-Dichloropropene	75	10.007	10.007	0.000	98	712773	50.0	53.2	
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1841071	50.0	49.0	
63 Toluene	92	10.302	10.302	0.000	99	1385193	50.0	49.1	
64 2-Nitropropane	43	10.598	10.598	0.000	96	92331	100.0	97.7	
65 Tetrachloroethene	164	10.752	10.752	0.000	96	420473	50.0	48.5	
66 4-Methyl-2-pentanone (MIBK	43	10.788	10.788	0.000	90	184636	50.0	51.2	
67 trans-1,3-Dichloropropene	75	10.811	10.823	-0.012	89	541209	50.0	51.8	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	91	265404	50.0	52.5	
69 Ethyl methacrylate	69	11.024	11.024	0.000	86	387838	50.0	53.7	
70 Chlorodibromomethane	129	11.190	11.190	0.000	90	320332	50.0	53.4	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	86	552195	50.0	49.3	
72 Ethylene Dibromide	107	11.427	11.427	0.000	99	257467	50.0	51.4	
118 n-Butyl acetate	43	11.628	11.628	0.000	93	342055	50.0	52.7	
74 2-Hexanone	43	11.711	11.711	0.000	89	134862	50.0	53.1	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	88	1181521	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	0.000	90	1022342	50.0	51.5	
77 Chlorobenzene	112	11.995	11.995	0.001	95	1348796	50.0	50.6	
78 Ethylbenzene	91	12.030	12.030	0.000	97	2654289	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
79 1,1,1,2-Tetrachloroethane	131	12.066	12.066	0.000	94	396522	50.0	51.3	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	99	999833	50.0	50.0	
82 o-Xylene	106	12.598	12.598	0.000	97	922464	50.0	50.2	
83 Styrene	104	12.657	12.657	0.000	94	1393410	50.0	50.8	
84 Bromoform	173	12.669	12.669	0.000	94	150061	50.0	52.7	
85 Isopropylbenzene	105	12.906	12.906	0.000	96	2546368	50.0	52.9	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	84	593783	50.0	49.9	
87 Bromobenzene	156	13.261	13.261	0.000	95	460287	50.0	51.1	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	3031383	50.0	52.4	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	93	298053	50.0	49.2	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	1687671	50.0	50.8	
91 1,3,5-Trimethylbenzene	105	13.474	13.474	0.000	93	1935016	50.0	51.3	
92 1,2,3-Trichloropropane	110	13.486	13.485	0.001	79	87187	50.0	50.9	
93 trans-1,4-Dichloro-2-buten	53	13.521	13.521	0.000	88	83806	50.0	50.1	
94 Cyclohexanone	55	13.533	13.533	0.000	69	63020	500.0	483.5	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	1708982	50.0	51.6	
96 tert-Butylbenzene	119	13.769	13.769	0.000	92	1671096	50.0	51.3	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	97	1886372	50.0	50.6	
98 sec-Butylbenzene	105	13.923	13.923	0.000	94	2635723	50.0	51.1	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	96	2111598	50.0	52.1	
100 1,3-Dichlorobenzene	146	14.113	14.113	0.000	96	902884	50.0	49.9	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	95	518166	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	93	882692	50.0	50.0	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	98	1729892	50.0	49.7	
103 n-Butylbenzene	134	14.420	14.420	0.000	97	530851	50.0	50.6	
120 Benzyl chloride	126	14.420	14.420	0.000	89	85131	50.0	48.5	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	97	749684	50.0	49.9	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	85	36184	50.0	51.0	
106 n-Nonyl Aldehyde	57	15.272	15.272	0.000	59	181493	50.0	48.2	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	97	604716	50.0	48.0	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	97	331544	50.0	48.4	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	94	454516	50.0	52.3	
110 Naphthalene	128	16.101	16.101	0.000	97	724440	50.0	52.6	
111 1,2,3-Trichlorobenzene	180	16.254	16.254	0.000	94	363005	50.0	53.7	

Reagents:

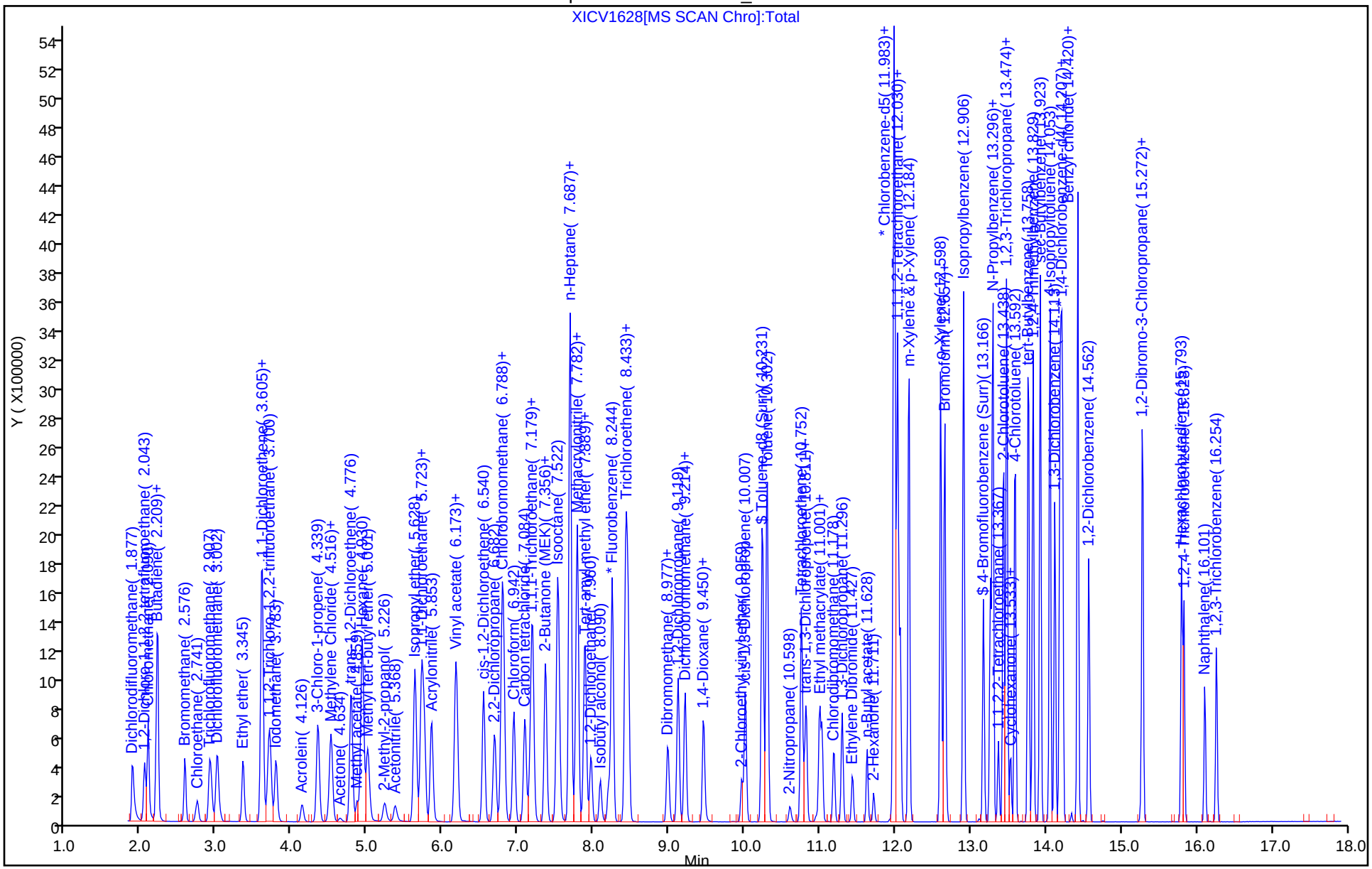
8260 Surr 25_00085	Amount Added: 10.00	Units: uL	
8260NewICVMix_00257	Amount Added: 10.00	Units: uL	
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:34:20 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICV1628.D

Injection Date:	04-Apr-2018 02:04:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	ICV			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Lab Sample ID: CCV 160-358977/3 Calibration Date: 04/04/2018 14:59

Instrument ID: VMSX Calib Start Date: 04/03/2018 21:52

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 04/04/2018 00:48

Lab File ID: XCCV1631.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	0.3259	0.3533	0.1000	54.2	50.0	8.4	20.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1340	0.1511	0.0100	56.4	50.0	12.7	20.0
Chloromethane	Ave	0.3636	0.3637	0.1000	50.0	50.0	0.0	20.0
Vinyl chloride	Ave	0.3862	0.3586	0.1000	46.4	50.0	-7.1	20.0
Butadiene	Ave	0.1890	0.1789	0.0100	47.3	50.0	-5.4	20.0
Bromomethane	Ave	0.1658	0.1619	0.1000	48.8	50.0	-2.4	20.0
Chloroethane	Lin1		0.1161	0.1000	44.6	50.0	-10.8	20.0
Trichlorofluoromethane	Ave	0.3595	0.3467	0.1000	48.2	50.0	-3.6	20.0
Dichlorofluoromethane	Ave	0.3773	0.3515	0.0100	46.6	50.0	-6.8	20.0
Ethyl ether	Ave	0.1232	0.1276	0.0100	51.8	50.0	3.6	20.0
1,1-Dichloroethene	Ave	0.2671	0.2683	0.1000	50.2	50.0	0.4	20.0
Carbon disulfide	Ave	0.9093	0.9376	0.1000	51.6	50.0	3.1	20.0
Ethanol	Ave	0.0011	0.0012*	0.0100	2070	2000	3.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1920	0.1963	0.1000	51.1	50.0	2.3	20.0
Iodomethane	Ave	0.3524	0.3564	0.0100	50.6	50.0	1.1	20.0
Acrolein	Ave	0.0182	0.0187	0.0010	258	250	3.1	20.0
3-Chloro-1-propene	Ave	0.2288	0.2228	0.0100	48.7	50.0	-2.6	20.0
Isopropyl alcohol	Qua		0.0060*	0.0100	498	500	-0.3	20.0
Methylene Chloride	Ave	0.2463	0.2474	0.1000	50.2	50.0	0.5	20.0
Acetone	Ave	0.0262	0.0260*	0.1000	49.6	50.0	-0.8	20.0
trans-1,2-Dichloroethene	Ave	0.2900	0.2882	0.1000	49.7	50.0	-0.6	20.0
Methyl acetate	Ave	0.0072	0.0076*	0.1000	264	250	5.5	20.0
Hexane	Ave	0.0971	0.1008	0.0100	51.9	50.0	3.7	20.0
Methyl tert-butyl ether	Ave	0.4409	0.4552	0.1000	51.6	50.0	3.2	20.0
2-Methyl-2-propanol	Qua		0.0117	0.0100	542	500	8.3	20.0
Acetonitrile	Ave	0.0113	0.0115	0.0010	510	500	1.9	20.0
Isopropyl ether	Ave	0.6997	0.6940	0.0100	49.6	50.0	-0.8	20.0
2-Chloro-1,3-butadiene	Ave	0.4672	0.4628	0.0100	49.5	50.0	-0.9	20.0
1,1-Dichloroethane	Ave	0.5230	0.5199	0.2000	49.7	50.0	-0.6	20.0
Acrylonitrile	Ave	0.0437	0.0445	0.0100	509	500	1.9	20.0
Tert-butyl ethyl ether	Ave	0.6934	0.6961	0.0100	50.2	50.0	0.4	20.0
Vinyl acetate	Ave	0.3039	0.3171	0.0100	52.2	50.0	4.3	20.0
2,2-Dichloropropane	Ave	0.3271	0.3401	0.0100	52.0	50.0	4.0	20.0
Cyclohexane	Ave	0.5022	0.5059	0.1000	50.4	50.0	0.7	20.0
Bromochloromethane	Ave	0.0900	0.0909	0.0100	50.5	50.0	1.0	20.0
Chloroform	Ave	0.4497	0.4381	0.2000	48.7	50.0	-2.6	20.0
Carbon tetrachloride	Ave	0.3391	0.3409	0.1000	50.3	50.0	0.5	20.0
Ethyl acetate	Ave	0.0138	0.0151	0.0100	109	100	8.9	20.0
1,1,1-Trichloroethane	Ave	0.4183	0.4184	0.1000	50.0	50.0	0.0	20.0
1,1-Dichloropropene	Ave	0.4093	0.4101	0.0100	50.1	50.0	0.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Lab Sample ID: CCV 160-358977/3 Calibration Date: 04/04/2018 14:59

Instrument ID: VMSX Calib Start Date: 04/03/2018 21:52

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 04/04/2018 00:48

Lab File ID: XCCV1631.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	0.0427	0.0439*	0.1000	51.4	50.0	2.9	20.0
Isooctane	Ave	1.400	1.377	0.0100	49.2	50.0	-1.6	20.0
n-Heptane	Ave	0.4707	0.4616	0.0100	49.0	50.0	-1.9	20.0
Benzene	Ave	1.168	1.119	0.5000	47.9	50.0	-4.2	20.0
Propionitrile	Ave	0.0164	0.0167	0.0010	507	500	1.4	20.0
Methacrylonitrile	Ave	0.0603	0.0591	0.0100	490	500	-1.9	20.0
Tert-amyl methyl ether	Ave	0.5121	0.5254	0.0100	51.3	50.0	2.6	20.0
1,2-Dichloroethane	Ave	0.2598	0.2502	0.1000	48.1	50.0	-3.7	20.0
Isobutyl alcohol	LinF		0.0026	0.0010	1190	1250	-5.1	20.0
Methylcyclohexane	Ave	0.4988	0.4940	0.1000	49.5	50.0	-1.0	20.0
Trichloroethene	Ave	0.2919	0.2809	0.2000	48.1	50.0	-3.8	20.0
n-Butanol	Qua		0.0036*	0.0100	1310	1250	5.0	20.0
Dibromomethane	Ave	0.0984	0.1003	0.0100	50.9	50.0	1.9	20.0
1,2-Dichloropropane	Ave	0.2632	0.2654	0.1000	50.4	50.0	0.9	20.0
Ethyl acrylate	Ave	0.1697	0.1800	0.0100	53.0	50.0	6.1	20.0
Bromodichloromethane	Ave	0.2895	0.2921	0.2000	50.4	50.0	0.9	20.0
Methyl methacrylate	Ave	0.0939	0.0978	0.0100	104	100	4.2	20.0
1,4-Dioxane	Ave	0.0011	0.0012	0.0010	1080	1000	8.0	20.0
2-Chloroethyl vinyl ether	Ave	0.0868	0.0941	0.0100	54.2	50.0	8.5	20.0
cis-1,3-Dichloropropene	Ave	0.3355	0.3581	0.2000	53.4	50.0	6.7	20.0
Toluene	Ave	1.193	1.200	0.4000	50.3	50.0	0.5	20.0
2-Nitropropane	Qua		0.0400	0.0100	99.6	100	-0.4	20.0
Tetrachloroethene	Ave	0.3667	0.3705	0.2000	50.5	50.0	1.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1528	0.1581	0.1000	51.7	50.0	3.5	20.0
trans-1,3-Dichloropropene	Ave	0.4424	0.4667	0.1000	52.7	50.0	5.5	20.0
1,1,2-Trichloroethane	Ave	0.2140	0.2158	0.1000	50.4	50.0	0.8	20.0
Ethyl methacrylate	Ave	0.3057	0.3334	0.0100	54.5	50.0	9.0	20.0
Dibromochloromethane	Ave	0.2538	0.2614	0.1000	51.5	50.0	3.0	20.0
1,3-Dichloropropane	Ave	0.4738	0.4659	0.0100	49.2	50.0	-1.7	20.0
1,2-Dibromoethane	Ave	0.2119	0.2157	0.1000	50.9	50.0	1.8	20.0
n-Butyl acetate	Ave	0.2746	0.2880	0.0100	52.4	50.0	4.9	20.0
2-Hexanone	Ave	0.1075	0.1116	0.1000	51.9	50.0	3.8	20.0
1-Chlorohexane	Ave	0.8397	0.6969	0.0100	41.5	50.0	-17.0	20.0
Chlorobenzene	Ave	1.128	1.112	0.5000	49.3	50.0	-1.4	20.0
Ethylbenzene	Ave	2.324	2.415	0.1000	52.0	50.0	3.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3272	0.3257	0.0100	49.8	50.0	-0.4	20.0
m,p-Xylenes	Ave	0.8470	0.8374	0.1000	49.4	50.0	-1.1	20.0
o-Xylene	Ave	0.7778	0.7674	0.3000	49.3	50.0	-1.3	20.0
Styrene	Ave	1.161	1.205	0.3000	51.9	50.0	3.8	20.0
Bromoform	Ave	0.2748	0.2842	0.1000	51.7	50.0	3.4	20.0
Isopropylbenzene	Ave	4.644	4.635	0.1000	49.9	50.0	-0.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Lab Sample ID: CCV 160-358977/3 Calibration Date: 04/04/2018 14:59

Instrument ID: VMSX Calib Start Date: 04/03/2018 21:52

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 04/04/2018 00:48

Lab File ID: XCCV1631.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
Bromobenzene	Ave	0.8687	0.8443	0.0100	48.6	50.0	-2.8	20.0
N-Propylbenzene	Ave	5.587	5.599	0.0100	50.1	50.0	0.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5846	0.5563	0.3000	47.6	50.0	-4.8	20.0
2-Chlorotoluene	Ave	3.203	3.450	0.0100	53.9	50.0	7.7	20.0
1,3,5-Trimethylbenzene	Ave	3.639	3.618	0.0100	49.7	50.0	-0.6	20.0
1,2,3-Trichloropropane	Ave	0.1654	0.1581	0.0100	47.8	50.0	-4.4	20.0
Cyclohexanone	Qua		0.0129	0.0010	513	500	2.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1616	0.1529	0.0100	47.3	50.0	-5.3	20.0
4-Chlorotoluene	Ave	3.196	3.167	0.0100	49.5	50.0	-0.9	20.0
tert-Butylbenzene	Ave	3.144	3.087	0.0100	49.1	50.0	-1.8	20.0
1,2,4-Trimethylbenzene	Ave	3.597	3.563	0.0100	49.5	50.0	-0.9	20.0
sec-Butylbenzene	Ave	4.979	4.995	0.0100	50.2	50.0	0.3	20.0
p-Isopropyltoluene	Ave	3.912	3.916	0.0100	50.0	50.0	0.1	20.0
1,3-Dichlorobenzene	Ave	1.746	1.727	0.6000	49.5	50.0	-1.1	20.0
1,4-Dichlorobenzene	Ave	1.702	1.657	0.5000	48.7	50.0	-2.7	20.0
1,2,3-Trimethylbenzene	Ave	3.360	3.245	0.0100	48.3	50.0	-3.4	20.0
Benzyl chloride	Ave	0.1695	0.1976	0.0100	58.3	50.0	16.6	20.0
n-Butylbenzene	Ave	1.013	1.027	0.0100	50.7	50.0	1.4	20.0
1,2-Dichlorobenzene	Ave	1.449	1.386	0.4000	47.9	50.0	-4.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0685	0.0683	0.0500	49.9	50.0	-0.2	20.0
n-Nonyl Aldehyde	QuaF		0.3424	0.0100	47.1	50.0	-5.8	20.0
1,3,5-Trichlorobenzene	Ave	1.216	1.183	0.0100	48.6	50.0	-2.7	20.0
Hexachlorobutadiene	Ave	0.6605	0.6367	0.0100	48.2	50.0	-3.6	20.0
1,2,4-Trichlorobenzene	Lin1		0.8943	0.2000	53.4	50.0	6.7	20.0
Naphthalene	Lin1		1.436	0.0100	54.0	50.0	8.1	20.0
1,2,3-Trichlorobenzene	Lin1		0.7042	0.0100	54.0	50.0	8.0	20.0
Dibromofluoromethane (Surr)	Ave	0.1926	0.1938	0.0100	50.3	50.0	0.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1967	0.1926	0.0100	49.0	50.0	-2.1	20.0
Toluene-d8 (Surr)	Ave	1.592	1.591	0.0100	50.0	50.0	-0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	1.148	1.178	0.0100	51.3	50.0	2.6	20.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XCCV1631.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 04-Apr-2018 14:59:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-003
Misc. Info.: CCV
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:40:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.877	1.877	0.000	99	691923	50.0	54.2	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	295936	50.0	56.4	
3 Chloromethane	50	2.090	2.090	0.000	98	712372	50.0	50.0	
4 Vinyl chloride	62	2.197	2.197	0.000	98	702314	50.0	46.4	
121 Butadiene	39	2.209	2.209	0.000	79	350335	50.0	47.3	
5 Bromomethane	94	2.575	2.576	-0.001	90	317006	50.0	48.8	
6 Chloroethane	64	2.741	2.741	0.000	98	227326	50.0	44.6	
7 Trichlorofluoromethane	101	2.907	2.907	0.000	98	678979	50.0	48.2	
122 Dichlorofluoromethane	67	3.001	3.001	0.000	96	688385	50.0	46.6	
8 Ethyl ether	74	3.345	3.345	0.000	87	249919	50.0	51.8	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	94	525438	50.0	50.2	
11 Ethanol	45	3.605	3.605	0.000	24	90803	2000.0	2068.7	
10 Carbon disulfide	76	3.593	3.605	-0.012	98	1836243	50.0	51.6	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	94	384514	50.0	51.1	
13 Iodomethane	142	3.782	3.782	0.000	98	697926	50.0	50.6	
14 Acrolein	56	4.126	4.126	0.000	98	183411	250.0	257.7	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	94	436294	50.0	48.7	
16 Isopropyl alcohol	45	4.481	4.492	-0.011	99	116443	500.0	498.4	
17 Methylene Chloride	84	4.504	4.516	-0.012	91	484558	50.0	50.2	
18 Acetone	43	4.634	4.634	0.000	96	50960	50.0	49.6	
19 trans-1,2-Dichloroethene	96	4.776	4.776	0.000	97	564452	50.0	49.7	
20 Methyl acetate	74	4.859	4.859	0.000	97	74020	250.0	263.7	
21 Hexane	86	4.918	4.930	-0.012	80	197329	50.0	51.9	
22 Methyl tert-butyl ether	73	5.001	5.001	0.000	87	891393	50.0	51.6	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	99	229457	500.0	541.7	
24 Acetonitrile	41	5.368	5.368	0.000	99	224757	500.0	509.7	
25 Isopropyl ether	45	5.617	5.628	-0.011	94	1359088	50.0	49.6	
27 2-Chloro-1,3-butadiene	53	5.711	5.711	0.000	90	906345	50.0	49.5	
28 1,1-Dichloroethane	63	5.747	5.747	0.000	95	1018166	50.0	49.7	
S 26 1,2-Dichloroethene, Total	96				0			99.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.841	5.853	-0.012	100	871377	500.0	509.4	
30 Tert-butyl ethyl ether	59	6.161	6.173	-0.012	98	1363211	50.0	50.2	
31 Vinyl acetate	43	6.185	6.185	-0.001	97	620960	50.0	52.2	
32 cis-1,2-Dichloroethene	96	6.528	6.540	-0.012	80	566829	50.0	49.7	
33 2,2-Dichloropropane	77	6.681	6.682	-0.001	87	666067	50.0	52.0	
34 Cyclohexane	84	6.788	6.788	0.000	86	990850	50.0	50.4	
35 Chlorobromomethane	128	6.800	6.812	-0.012	97	177920	50.0	50.5	
36 Chloroform	83	6.930	6.942	-0.012	92	857906	50.0	48.7	
37 Carbon tetrachloride	117	7.084	7.084	0.000	97	667606	50.0	50.3	
39 Ethyl acetate	45	7.155	7.155	0.000	97	59067	100.0	108.9	
38 Tetrahydrofuran	71	7.143	7.155	-0.012	86	53570	100.0	104.7	
$ 41 Dibromofluoromethane (Surr	113	7.178	7.179	0.000	92	379521	50.0	50.3	
40 1,1,1-Trichloroethane	97	7.178	7.190	-0.012	98	819323	50.0	50.0	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	99	803193	50.0	50.1	
43 2-Butanone (MEK)	43	7.380	7.380	0.000	99	85934	50.0	51.4	
124 Isooctane	57	7.522	7.522	0.000	93	2695861	50.0	49.2	
117 n-Heptane	43	7.675	7.687	-0.012	85	904027	50.0	49.0	
44 Benzene	78	7.687	7.687	0.000	96	2192496	50.0	47.9	
45 Propionitrile	54	7.758	7.758	0.000	94	326198	500.0	506.9	
46 Methacrylonitrile	41	7.770	7.782	-0.012	83	1157675	500.0	490.4	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.865	7.877	-0.012	99	377222	50.0	49.0	
48 Tert-amyl methyl ether	73	7.888	7.888	0.000	98	1028986	50.0	51.3	
49 1,2-Dichloroethane	62	7.959	7.959	0.000	98	489920	50.0	48.1	
50 Isobutyl alcohol	42	8.090	8.090	0.000	96	128479	1250.0	1186.5	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1958477	50.0	50.0	
52 Methylcyclohexane	55	8.421	8.421	0.000	87	967507	50.0	49.5	
53 Trichloroethene	95	8.456	8.456	0.000	97	550090	50.0	48.1	
54 n-Butanol	56	8.965	8.977	-0.012	79	175401	1250.0	1312.3	
55 Dibromomethane	93	8.977	8.989	-0.012	97	196371	50.0	50.9	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	96	519865	50.0	50.4	
123 Ethyl acrylate	55	9.202	9.202	0.000	98	352543	50.0	53.0	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	572015	50.0	50.4	
58 Methyl methacrylate	69	9.450	9.450	0.000	88	383088	100.0	104.2	
59 1,4-Dioxane	88	9.474	9.486	-0.012	96	47642	1000.0	1079.8	
60 2-Chloroethyl vinyl ether	63	9.959	9.959	0.000	88	184348	50.0	54.2	
61 cis-1,3-Dichloropropene	75	10.007	10.007	0.000	98	701304	50.0	53.4	
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1861217	50.0	50.0	
63 Toluene	92	10.291	10.302	-0.011	99	1403501	50.0	50.3	
64 2-Nitropropane	43	10.598	10.598	0.000	97	93444	100.0	99.6	
65 Tetrachloroethene	164	10.752	10.752	0.000	96	433373	50.0	50.5	
66 4-Methyl-2-pentanone (MIBK	43	10.788	10.788	0.000	91	184871	50.0	51.7	
67 trans-1,3-Dichloropropene	75	10.811	10.823	-0.012	89	545890	50.0	52.7	
68 1,1,2-Trichloroethane	83	10.989	11.001	-0.012	89	252348	50.0	50.4	
69 Ethyl methacrylate	69	11.024	11.024	0.000	82	389905	50.0	54.5	a
70 Chlorodibromomethane	129	11.178	11.190	-0.012	91	305786	50.0	51.5	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	86	544924	50.0	49.2	
72 Ethylene Dibromide	107	11.426	11.427	-0.001	99	252295	50.0	50.9	
S 73 1,3-Dichloropropene, Total	75				0			106.1	
118 n-Butyl acetate	43	11.628	11.628	0.000	93	336884	50.0	52.4	
74 2-Hexanone	43	11.710	11.711	-0.001	88	130519	50.0	51.9	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	88	1169643	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	0.000	84	815132	50.0	41.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
77 Chlorobenzene	112	11.994	11.995	0.000	97	1300681	50.0	49.3	
78 Ethylbenzene	91	12.030	12.030	0.000	96	2824506	50.0	52.0	
79 1,1,1,2-Tetrachloroethane	131	12.065	12.066	-0.001	94	380970	50.0	49.8	
80 m-Xylene & p-Xylene	106	12.172	12.184	-0.012	100	979417	50.0	49.4	
82 o-Xylene	106	12.598	12.598	0.000	97	897571	50.0	49.3	
83 Styrene	104	12.657	12.657	0.000	94	1409172	50.0	51.9	
84 Bromoform	173	12.669	12.669	0.000	97	149757	50.0	51.7	
85 Isopropylbenzene	105	12.906	12.906	0.000	96	2442123	50.0	49.9	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	84	620808	50.0	51.3	
87 Bromobenzene	156	13.261	13.261	0.000	94	444904	50.0	48.6	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	2950014	50.0	50.1	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	94	293152	50.0	47.6	
90 2-Chlorotoluene	91	13.426	13.438	-0.012	96	1817765	50.0	53.9	
91 1,3,5-Trimethylbenzene	105	13.474	13.474	0.000	94	1906264	50.0	49.7	
92 1,2,3-Trichloropropane	110	13.485	13.485	0.000	81	83279	50.0	47.8	
93 trans-1,4-Dichloro-2-buten	53	13.521	13.521	0.000	92	80586	50.0	47.3	
94 Cyclohexanone	55	13.521	13.533	-0.012	73	68096	500.0	513.0	
95 4-Chlorotoluene	91	13.580	13.592	-0.012	98	1668534	50.0	49.5	
96 tert-Butylbenzene	119	13.758	13.769	-0.011	92	1626735	50.0	49.1	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	97	1877479	50.0	49.5	
98 sec-Butylbenzene	105	13.923	13.923	0.000	94	2631822	50.0	50.2	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	96	2063548	50.0	50.0	
100 1,3-Dichlorobenzene	146	14.113	14.113	0.000	97	910202	50.0	49.5	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	95	526927	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	94	873152	50.0	48.7	
119 1,2,3-Trimethylbenzene	105	14.207	14.219	-0.012	98	1709767	50.0	48.3	
103 n-Butylbenzene	134	14.420	14.420	0.000	97	541169	50.0	50.7	
120 Benzyl chloride	126	14.420	14.420	0.000	89	104103	50.0	58.3	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	97	730444	50.0	47.9	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	86	35989	50.0	49.9	
106 n-Nonyl Aldehyde	57	15.272	15.272	0.000	59	180438	50.0	47.1	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	623572	50.0	48.6	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	97	335471	50.0	48.2	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	94	471221	50.0	53.4	
110 Naphthalene	128	16.100	16.101	-0.001	97	756542	50.0	54.0	
111 1,2,3-Trichlorobenzene	180	16.254	16.254	0.000	95	371064	50.0	54.0	
S 112 Xylenes, Total	106				0			98.8	
S 113 Trihalomethanes, Total	1				0			202.4	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

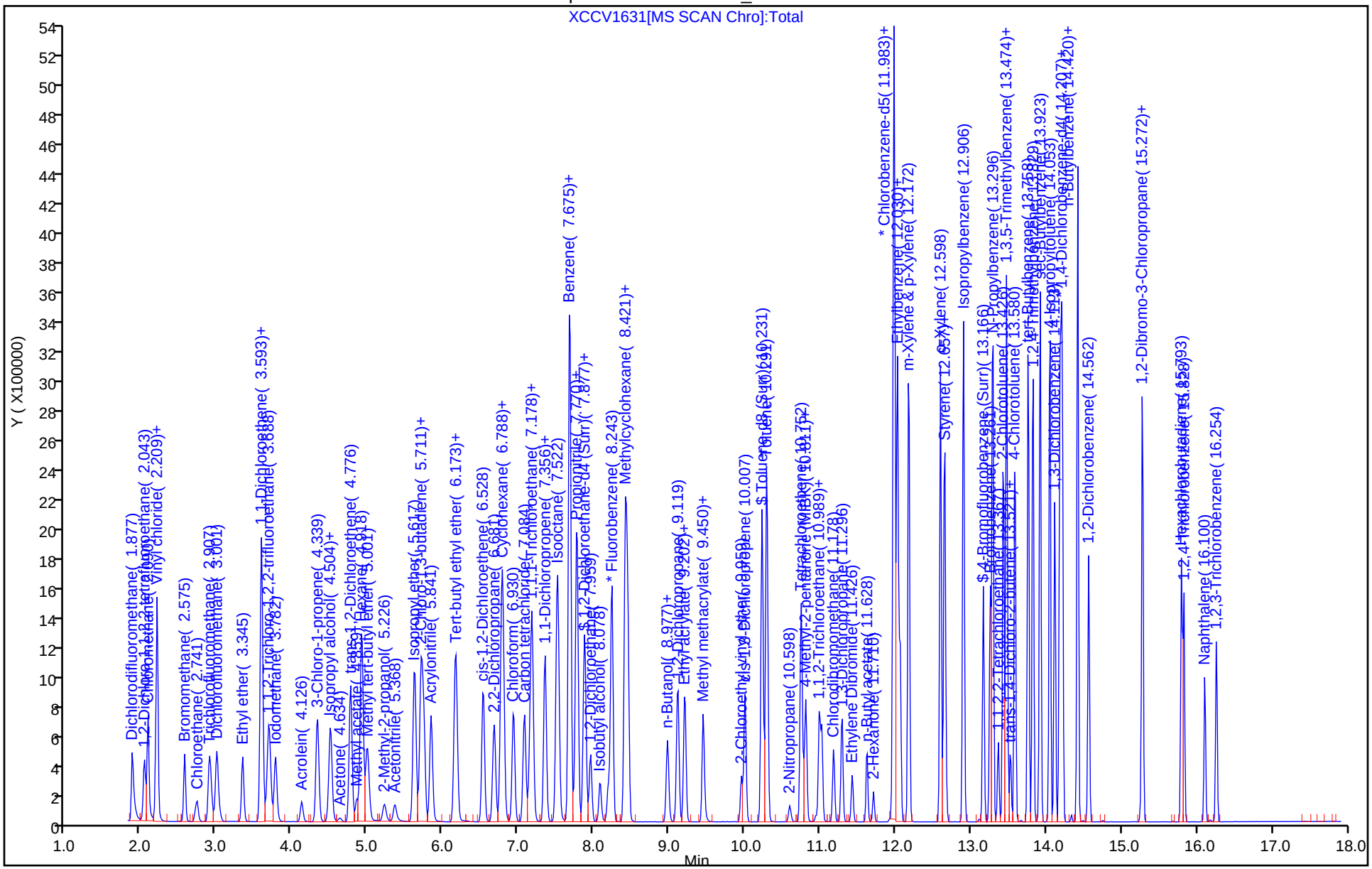
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I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00085	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:43:58 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XCCV1631.D

Injection Date:	04-Apr-2018 14:59:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	CCV			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		



Manual Integration/User Assign Peak Report

TestAmerica St. Louis

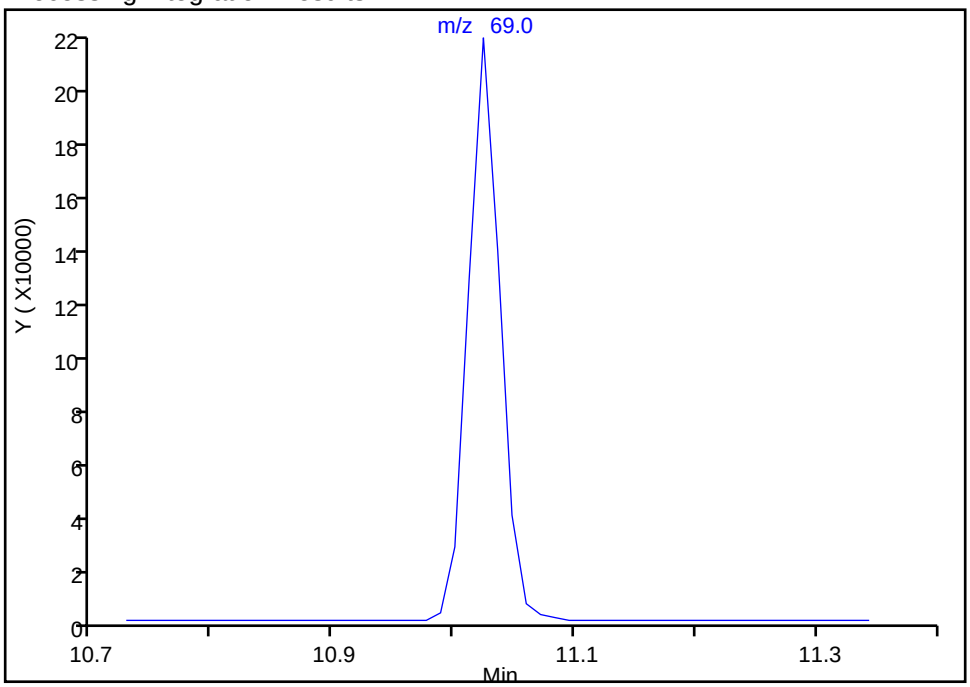
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Injection Date: 04-Apr-2018 14:59:30 Instrument ID: VMSX
Lims ID: CCV
Client ID:
Operator ID: JDH ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 5mL-8260-MSX Limit Group: MSV-8260_DoD
Column: Detector MS SCAN

69 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

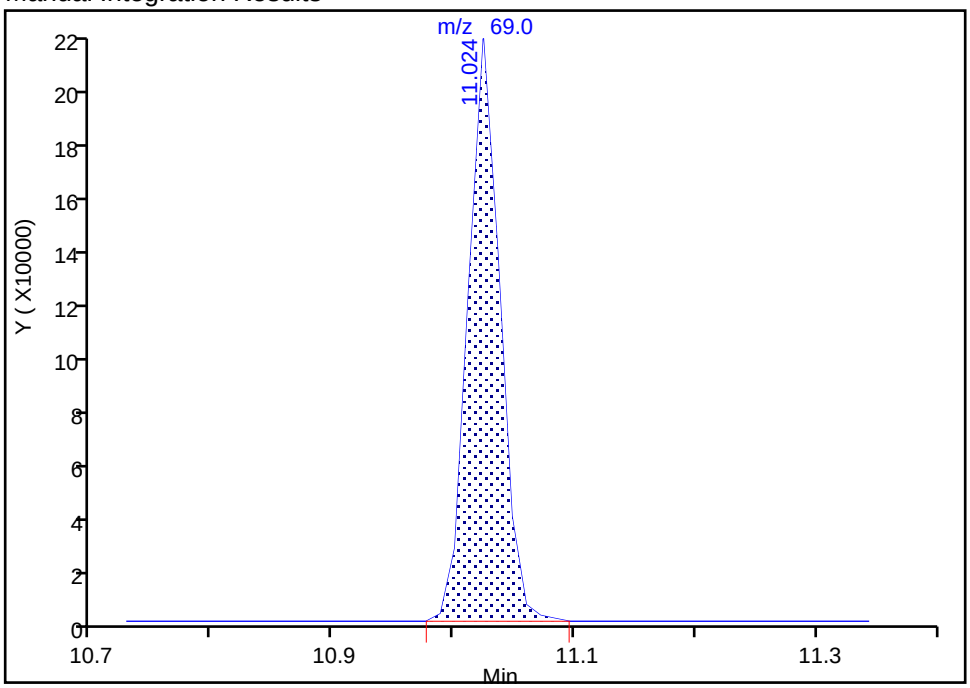
Not Detected
Expected RT: 11.02

Processing Integration Results



Manual Integration Results

RT: 11.02
Area: 389905
Amount: 54.524905
Amount Units: ug/l



Reviewer: hannj, 04-Apr-2018 19:40:28
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Lab Sample ID: CCVC 160-358977/20 Calibration Date: 04/04/2018 22:16

Instrument ID: VMSX Calib Start Date: 04/03/2018 21:52

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 04/04/2018 00:48

Lab File ID: XCCV1648.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	0.3259	0.3287	0.1000	50.4	50.0	0.9	50.0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1340	0.1320	0.0100	49.2	50.0	-1.5	50.0
Chloromethane	Ave	0.3636	0.3506	0.1000	48.2	50.0	-3.6	50.0
Vinyl chloride	Ave	0.3862	0.3645	0.1000	47.2	50.0	-5.6	50.0
Butadiene	Ave	0.1890	0.1946	0.0100	51.5	50.0	2.9	50.0
Bromomethane	Ave	0.1658	0.1684	0.1000	50.8	50.0	1.5	50.0
Chloroethane	Lin1		0.1262	0.1000	48.7	50.0	-2.7	50.0
Trichlorofluoromethane	Ave	0.3595	0.3621	0.1000	50.4	50.0	0.7	50.0
Dichlorofluoromethane	Ave	0.3773	0.3788	0.0100	50.2	50.0	0.4	50.0
Ethyl ether	Ave	0.1232	0.1212	0.0100	49.2	50.0	-1.6	50.0
1,1-Dichloroethene	Ave	0.2671	0.2561	0.1000	47.9	50.0	-4.1	50.0
Carbon disulfide	Ave	0.9093	0.8817	0.1000	48.5	50.0	-3.0	50.0
Ethanol	Ave	0.0011	0.0011*	0.0100	1960	2000	-1.9	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1920	0.1899	0.1000	49.5	50.0	-1.1	50.0
Iodomethane	Ave	0.3524	0.3382	0.0100	48.0	50.0	-4.1	50.0
Acrolein	Ave	0.0182	0.0160	0.0010	220	250	-12.1	50.0
3-Chloro-1-propene	Ave	0.2288	0.2203	0.0100	48.1	50.0	-3.7	50.0
Isopropyl alcohol	Qua		0.0056*	0.0100	471	500	-5.8	50.0
Methylene Chloride	Ave	0.2463	0.2392	0.1000	48.6	50.0	-2.9	50.0
Acetone	Ave	0.0262	0.0264*	0.1000	50.4	50.0	0.8	50.0
trans-1,2-Dichloroethene	Ave	0.2900	0.2730	0.1000	47.1	50.0	-5.8	50.0
Methyl acetate	Ave	0.0072	0.0070*	0.1000	244	250	-2.3	50.0
Hexane	Ave	0.0971	0.0957	0.0100	49.3	50.0	-1.5	50.0
Methyl tert-butyl ether	Ave	0.4409	0.4278	0.1000	48.5	50.0	-3.0	50.0
2-Methyl-2-propanol	Qua		0.0102	0.0100	473	500	-5.4	50.0
Acetonitrile	Ave	0.0113	0.0114	0.0010	505	500	1.0	50.0
Isopropyl ether	Ave	0.6997	0.6961	0.0100	49.7	50.0	-0.5	50.0
2-Chloro-1,3-butadiene	Ave	0.4672	0.4568	0.0100	48.9	50.0	-2.2	50.0
1,1-Dichloroethane	Ave	0.5230	0.5104	0.2000	48.8	50.0	-2.4	50.0
Acrylonitrile	Ave	0.0437	0.0436	0.0100	499	500	-0.1	50.0
Tert-butyl ethyl ether	Ave	0.6934	0.6650	0.0100	48.0	50.0	-4.1	50.0
Vinyl acetate	Ave	0.3039	0.3071	0.0100	50.5	50.0	1.1	50.0
2,2-Dichloropropane	Ave	0.3271	0.2889	0.0100	44.2	50.0	-11.7	50.0
Cyclohexane	Ave	0.5022	0.4845	0.1000	48.2	50.0	-3.5	50.0
Bromochloromethane	Ave	0.0900	0.0892	0.0100	49.6	50.0	-0.9	50.0
Chloroform	Ave	0.4497	0.4303	0.2000	47.8	50.0	-4.3	50.0
Carbon tetrachloride	Ave	0.3391	0.3301	0.1000	48.7	50.0	-2.6	50.0
Ethyl acetate	Ave	0.0138	0.0143	0.0100	103	100	3.1	50.0
1,1,1-Trichloroethane	Ave	0.4183	0.4115	0.1000	49.2	50.0	-1.6	50.0
1,1-Dichloropropene	Ave	0.4093	0.3975	0.0100	48.6	50.0	-2.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Lab Sample ID: CCVC 160-358977/20 Calibration Date: 04/04/2018 22:16

Instrument ID: VMSX Calib Start Date: 04/03/2018 21:52

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 04/04/2018 00:48

Lab File ID: XCCV1648.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	0.0427	0.0411*	0.1000	48.2	50.0	-3.7	50.0
Isooctane	Ave	1.400	1.356	0.0100	48.4	50.0	-3.1	50.0
Benzene	Ave	1.168	1.105	0.5000	47.3	50.0	-5.4	50.0
n-Heptane	Ave	0.4707	0.4638	0.0100	49.3	50.0	-1.5	50.0
Propionitrile	Ave	0.0164	0.0160	0.0010	487	500	-2.6	50.0
Methacrylonitrile	Ave	0.0603	0.0594	0.0100	493	500	-1.5	50.0
Tert-amyl methyl ether	Ave	0.5121	0.4945	0.0100	48.3	50.0	-3.4	50.0
1,2-Dichloroethane	Ave	0.2598	0.2508	0.1000	48.3	50.0	-3.4	50.0
Isobutyl alcohol	LinF		0.0024	0.0010	1070	1250	-14.1	50.0
Methylcyclohexane	Ave	0.4988	0.4874	0.1000	48.9	50.0	-2.3	50.0
Trichloroethene	Ave	0.2919	0.2765	0.2000	47.4	50.0	-5.3	50.0
n-Butanol	Qua		0.0031*	0.0100	1150	1250	-8.0	50.0
Dibromomethane	Ave	0.0984	0.0978	0.0100	49.7	50.0	-0.6	50.0
1,2-Dichloropropane	Ave	0.2632	0.2641	0.1000	50.2	50.0	0.3	50.0
Ethyl acrylate	Ave	0.1697	0.1686	0.0100	49.7	50.0	-0.7	50.0
Bromodichloromethane	Ave	0.2895	0.2867	0.2000	49.5	50.0	-1.0	50.0
Methyl methacrylate	Ave	0.0939	0.0948	0.0100	101	100	1.0	50.0
1,4-Dioxane	Ave	0.0011	0.0011	0.0010	1010	1000	0.7	50.0
2-Chloroethyl vinyl ether	Ave	0.0868	0.0873	0.0100	50.3	50.0	0.6	50.0
cis-1,3-Dichloropropene	Ave	0.3355	0.3278	0.2000	48.9	50.0	-2.3	50.0
Toluene	Ave	1.193	1.143	0.4000	47.9	50.0	-4.2	50.0
2-Nitropropane	Qua		0.0355	0.0100	89.6	100	-10.4	50.0
Tetrachloroethene	Ave	0.3667	0.3468	0.2000	47.3	50.0	-5.4	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1528	0.1515	0.1000	49.6	50.0	-0.8	50.0
trans-1,3-Dichloropropene	Ave	0.4424	0.4211	0.1000	47.6	50.0	-4.8	50.0
1,1,2-Trichloroethane	Ave	0.2140	0.2061	0.1000	48.1	50.0	-3.7	50.0
Ethyl methacrylate	Ave	0.3057	0.2988	0.0100	48.9	50.0	-2.3	50.0
Dibromochloromethane	Ave	0.2538	0.2474	0.1000	48.7	50.0	-2.5	50.0
1,3-Dichloropropane	Ave	0.4738	0.4481	0.0100	47.3	50.0	-5.4	50.0
1,2-Dibromoethane	Ave	0.2119	0.2079	0.1000	49.1	50.0	-1.9	50.0
n-Butyl acetate	Ave	0.2746	0.2686	0.0100	48.9	50.0	-2.2	50.0
2-Hexanone	Ave	0.1075	0.1033	0.1000	48.0	50.0	-4.0	50.0
1-Chlorohexane	Ave	0.8397	0.8054	0.0100	48.0	50.0	-4.1	50.0
Chlorobenzene	Ave	1.128	1.098	0.5000	48.7	50.0	-2.7	50.0
Ethylbenzene	Ave	2.324	2.156	0.1000	46.4	50.0	-7.2	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3272	0.3169	0.0100	48.4	50.0	-3.1	50.0
m,p-Xylenes	Ave	0.8470	0.8015	0.1000	47.3	50.0	-5.4	50.0
o-Xylene	Ave	0.7778	0.7388	0.3000	47.5	50.0	-5.0	50.0
Styrene	Ave	1.161	1.142	0.3000	49.2	50.0	-1.7	50.0
Bromoform	Ave	0.2748	0.2610	0.1000	47.5	50.0	-5.0	50.0
Isopropylbenzene	Ave	4.644	4.578	0.1000	49.3	50.0	-1.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Lab Sample ID: CCVC 160-358977/20 Calibration Date: 04/04/2018 22:16

Instrument ID: VMSX Calib Start Date: 04/03/2018 21:52

GC Column: RTXVMS30 ID: 0.25(mm) Calib End Date: 04/04/2018 00:48

Lab File ID: XCCV1648.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
Bromobenzene	Ave	0.8687	0.8454	0.0100	48.7	50.0	-2.7	50.0
N-Propylbenzene	Ave	5.587	5.424	0.0100	48.5	50.0	-2.9	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5846	0.5191	0.3000	44.4	50.0	-11.2	50.0
2-Chlorotoluene	Ave	3.203	3.075	0.0100	48.0	50.0	-4.0	50.0
1,3,5-Trimethylbenzene	Ave	3.639	3.471	0.0100	47.7	50.0	-4.6	50.0
1,2,3-Trichloropropane	Ave	0.1654	0.1530	0.0100	46.3	50.0	-7.5	50.0
Cyclohexanone	Qua		0.0110	0.0010	437	500	-12.5	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1616	0.1259	0.0100	39.0	50.0	-22.1	50.0
4-Chlorotoluene	Ave	3.196	3.090	0.0100	48.4	50.0	-3.3	50.0
tert-Butylbenzene	Ave	3.144	3.031	0.0100	48.2	50.0	-3.6	50.0
1,2,4-Trimethylbenzene	Ave	3.597	3.453	0.0100	48.0	50.0	-4.0	50.0
sec-Butylbenzene	Ave	4.979	4.789	0.0100	48.1	50.0	-3.8	50.0
p-Isopropyltoluene	Ave	3.912	3.718	0.0100	47.5	50.0	-5.0	50.0
1,3-Dichlorobenzene	Ave	1.746	1.628	0.6000	46.6	50.0	-6.7	50.0
1,4-Dichlorobenzene	Ave	1.702	1.587	0.5000	46.6	50.0	-6.8	50.0
1,2,3-Trimethylbenzene	Ave	3.360	3.179	0.0100	47.3	50.0	-5.4	50.0
Benzyl chloride	Ave	0.1695	0.1252	0.0100	36.9	50.0	-26.2	50.0
n-Butylbenzene	Ave	1.013	0.9504	0.0100	46.9	50.0	-6.2	50.0
1,2-Dichlorobenzene	Ave	1.449	1.344	0.4000	46.4	50.0	-7.2	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.0685	0.0607	0.0500	44.3	50.0	-11.4	50.0
n-Nonyl Aldehyde	QuaF		0.2946	0.0100	40.6	50.0	-18.8	50.0
1,3,5-Trichlorobenzene	Ave	1.216	1.090	0.0100	44.8	50.0	-10.3	50.0
Hexachlorobutadiene	Ave	0.6605	0.5868	0.0100	44.4	50.0	-11.2	50.0
1,2,4-Trichlorobenzene	Lin1		0.8135	0.2000	48.4	50.0	-3.3	50.0
Naphthalene	Lin1		1.263	0.0100	47.3	50.0	-5.3	50.0
1,2,3-Trichlorobenzene	Lin1		0.6451	0.0100	49.2	50.0	-1.6	50.0
Dibromofluoromethane (Surr)	Ave	0.1926	0.1930	0.0100	50.1	50.0	0.2	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1967	0.1953	0.0100	49.6	50.0	-0.7	50.0
Toluene-d8 (Surr)	Ave	1.592	1.551	0.0100	48.7	50.0	-2.6	50.0
4-Bromofluorobenzene (Surr)	Ave	1.148	1.133	0.0100	49.4	50.0	-1.3	50.0

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XCCV1648.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 04-Apr-2018 22:16:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-020
Misc. Info.: CCVC
Operator ID: JDH Instrument ID: VMSX
Sublist: chrom-5mL-8260-MSX*sub15

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:44:19 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 05-Apr-2018 14:21:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.877	0.012	99	598508	50.0	50.4	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	240370	50.0	49.2	
3 Chloromethane	50	2.090	2.090	0.000	98	638345	50.0	48.2	
4 Vinyl chloride	62	2.197	2.197	0.000	98	663695	50.0	47.2	
121 Butadiene	39	2.220	2.209	0.011	79	354295	50.0	51.5	
5 Bromomethane	94	2.575	2.576	-0.001	90	306593	50.0	50.8	
6 Chloroethane	64	2.741	2.741	0.000	98	229833	50.0	48.7	
7 Trichlorofluoromethane	101	2.919	2.907	0.012	98	659293	50.0	50.4	
122 Dichlorofluoromethane	67	3.013	3.001	0.012	96	689872	50.0	50.2	
8 Ethyl ether	74	3.345	3.345	0.000	88	220672	50.0	49.2	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	94	466349	50.0	47.9	
11 Ethanol	45	3.605	3.605	0.000	24	80115	2000.0	1963.0	
10 Carbon disulfide	76	3.605	3.605	0.000	99	1605587	50.0	48.5	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	95	345842	50.0	49.5	
13 Iodomethane	142	3.782	3.782	0.000	99	615819	50.0	48.0	
14 Acrolein	56	4.137	4.126	0.011	99	145473	250.0	219.8	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	93	401201	50.0	48.1	
16 Isopropyl alcohol	45	4.492	4.492	0.000	98	102267	500.0	471.1	
17 Methylene Chloride	84	4.516	4.516	0.000	93	435501	50.0	48.6	
18 Acetone	43	4.634	4.634	0.000	98	48152	50.0	50.4	
19 trans-1,2-Dichloroethene	96	4.788	4.776	0.012	96	497162	50.0	47.1	
20 Methyl acetate	74	4.859	4.859	0.000	96	63774	250.0	244.4	
21 Hexane	86	4.930	4.930	0.000	81	174299	50.0	49.3	
22 Methyl tert-butyl ether	73	5.001	5.001	0.000	93	778988	50.0	48.5	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	98	185526	500.0	473.0	
24 Acetonitrile	41	5.368	5.368	0.000	98	206947	500.0	504.8	
25 Isopropyl ether	45	5.628	5.628	0.000	95	1267588	50.0	49.7	
27 2-Chloro-1,3-butadiene	53	5.711	5.711	0.000	90	831785	50.0	48.9	
28 1,1-Dichloroethane	63	5.747	5.747	0.000	96	929481	50.0	48.8	
S 26 1,2-Dichloroethene, Total	96				0			94.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
29 Acrylonitrile	53	5.853	5.853	0.000	100	794335	500.0	499.4	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	98	1211010	50.0	48.0	
31 Vinyl acetate	43	6.184	6.185	-0.001	97	559206	50.0	50.5	
32 cis-1,2-Dichloroethene	96	6.539	6.540	-0.001	81	507764	50.0	47.8	
33 2,2-Dichloropropane	77	6.681	6.682	-0.001	88	526098	50.0	44.2	
34 Cyclohexane	84	6.788	6.788	0.000	87	882185	50.0	48.2	
35 Chlorobromomethane	128	6.812	6.812	0.000	97	162355	50.0	49.6	
36 Chloroform	83	6.942	6.942	0.000	93	783574	50.0	47.8	
37 Carbon tetrachloride	117	7.084	7.084	0.000	97	601133	50.0	48.7	
39 Ethyl acetate	45	7.155	7.155	0.000	99	51993	100.0	103.1	
38 Tetrahydrofuran	71	7.143	7.155	-0.012	90	47060	100.0	98.9	
$ 41 Dibromofluoromethane (Surr	113	7.178	7.179	0.000	93	351441	50.0	50.1	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	98	749377	50.0	49.2	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	99	723771	50.0	48.6	
43 2-Butanone (MEK)	43	7.380	7.380	0.000	99	74811	50.0	48.2	
124 Isooctane	57	7.522	7.522	0.000	93	2469602	50.0	48.4	
117 n-Heptane	43	7.687	7.687	0.000	69	844581	50.0	49.3	
44 Benzene	78	7.687	7.687	0.000	96	2012365	50.0	47.3	
45 Propionitrile	54	7.758	7.758	0.000	96	291505	500.0	487.1	
46 Methacrylonitrile	41	7.782	7.782	0.000	85	1081456	500.0	492.7	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	355597	50.0	49.6	
48 Tert-amyl methyl ether	73	7.888	7.888	0.000	98	900547	50.0	48.3	
49 1,2-Dichloroethane	62	7.959	7.959	0.000	98	456787	50.0	48.3	
50 Isobutyl alcohol	42	8.090	8.090	0.000	96	108083	1250.0	1073.5	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1821005	50.0	50.0	
52 Methylcyclohexane	55	8.421	8.421	0.000	88	887576	50.0	48.9	
53 Trichloroethene	95	8.456	8.456	0.000	97	503546	50.0	47.4	
54 n-Butanol	56	8.977	8.977	0.000	79	141981	1250.0	1150.0	
55 Dibromomethane	93	8.989	8.989	0.000	97	178131	50.0	49.7	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	96	480865	50.0	50.2	
123 Ethyl acrylate	55	9.202	9.202	0.000	98	306978	50.0	49.7	
57 Dichlorobromomethane	83	9.214	9.214	0.000	100	522111	50.0	49.5	
58 Methyl methacrylate	69	9.450	9.450	0.000	88	345327	100.0	101.0	
59 1,4-Dioxane	88	9.486	9.486	0.000	95	41325	1000.0	1007.4	
60 2-Chloroethyl vinyl ether	63	9.959	9.959	0.000	89	158985	50.0	50.3	
61 cis-1,3-Dichloropropene	75	10.006	10.007	-0.001	98	596837	50.0	48.9	
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1720231	50.0	48.7	
63 Toluene	92	10.302	10.302	0.000	99	1268016	50.0	47.9	
64 2-Nitropropane	43	10.598	10.598	0.000	96	78716	100.0	89.6	
65 Tetrachloroethene	164	10.752	10.752	0.000	96	384745	50.0	47.3	
66 4-Methyl-2-pentanone (MIBK	43	10.787	10.788	-0.001	90	168032	50.0	49.6	
67 trans-1,3-Dichloropropene	75	10.811	10.823	-0.012	90	467149	50.0	47.6	
68 1,1,2-Trichloroethane	83	11.000	11.001	-0.001	91	228575	50.0	48.1	
69 Ethyl methacrylate	69	11.024	11.024	0.000	87	331402	50.0	48.9	
70 Chlorodibromomethane	129	11.190	11.190	0.000	90	274474	50.0	48.7	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	87	497056	50.0	47.3	
72 Ethylene Dibromide	107	11.426	11.427	-0.001	98	230653	50.0	49.1	
S 73 1,3-Dichloropropene, Total	75				0			96.4	
118 n-Butyl acetate	43	11.628	11.628	0.000	93	297982	50.0	48.9	
74 2-Hexanone	43	11.710	11.711	-0.001	90	114533	50.0	48.0	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	89	1109303	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	0.000	86	893385	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
77 Chlorobenzene	112	11.994	11.995	0.000	97	1218165	50.0	48.7	
78 Ethylbenzene	91	12.030	12.030	0.000	98	2391330	50.0	46.4	
79 1,1,1,2-Tetrachloroethane	131	12.065	12.066	-0.001	94	351480	50.0	48.4	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	99	889063	50.0	47.3	
82 o-Xylene	106	12.598	12.598	0.000	97	819532	50.0	47.5	
83 Styrene	104	12.657	12.657	0.000	94	1266359	50.0	49.2	
84 Bromoform	173	12.669	12.669	0.000	96	128803	50.0	47.5	
85 Isopropylbenzene	105	12.906	12.906	0.000	96	2259436	50.0	49.3	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	85	559213	50.0	49.4	
87 Bromobenzene	156	13.261	13.261	0.000	95	417223	50.0	48.7	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	2677064	50.0	48.5	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	95	256202	50.0	44.4	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	1517472	50.0	48.0	
91 1,3,5-Trimethylbenzene	105	13.474	13.474	0.000	94	1713098	50.0	47.7	
92 1,2,3-Trichloropropane	110	13.485	13.485	0.000	79	75521	50.0	46.3	
93 trans-1,4-Dichloro-2-buten	53	13.521	13.521	0.000	86	62141	50.0	39.0	
94 Cyclohexanone	55	13.521	13.533	-0.012	71	54210	500.0	437.4	
95 4-Chlorotoluene	91	13.580	13.592	-0.012	98	1525080	50.0	48.4	
96 tert-Butylbenzene	119	13.758	13.769	-0.011	92	1496113	50.0	48.2	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	97	1704155	50.0	48.0	
98 sec-Butylbenzene	105	13.923	13.923	0.000	94	2363635	50.0	48.1	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	96	1835196	50.0	47.5	
100 1,3-Dichlorobenzene	146	14.113	14.113	-0.001	97	803614	50.0	46.6	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	96	493532	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	94	783260	50.0	46.6	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	98	1569040	50.0	47.3	
103 n-Butylbenzene	134	14.420	14.420	0.000	97	469069	50.0	46.9	
120 Benzyl chloride	126	14.420	14.420	0.000	89	61774	50.0	36.9	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	96	663296	50.0	46.4	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	86	29948	50.0	44.3	
106 n-Nonyl Aldehyde	57	15.272	15.272	0.000	57	145384	50.0	40.6	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	97	538177	50.0	44.8	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	98	289587	50.0	44.4	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	94	401473	50.0	48.4	
110 Naphthalene	128	16.100	16.101	-0.001	97	623460	50.0	47.3	
111 1,2,3-Trichlorobenzene	180	16.254	16.254	0.000	95	318381	50.0	49.2	
S 112 Xylenes, Total	106				0			94.8	
S 113 Trihalomethanes, Total	1				0			193.6	

Reagents:

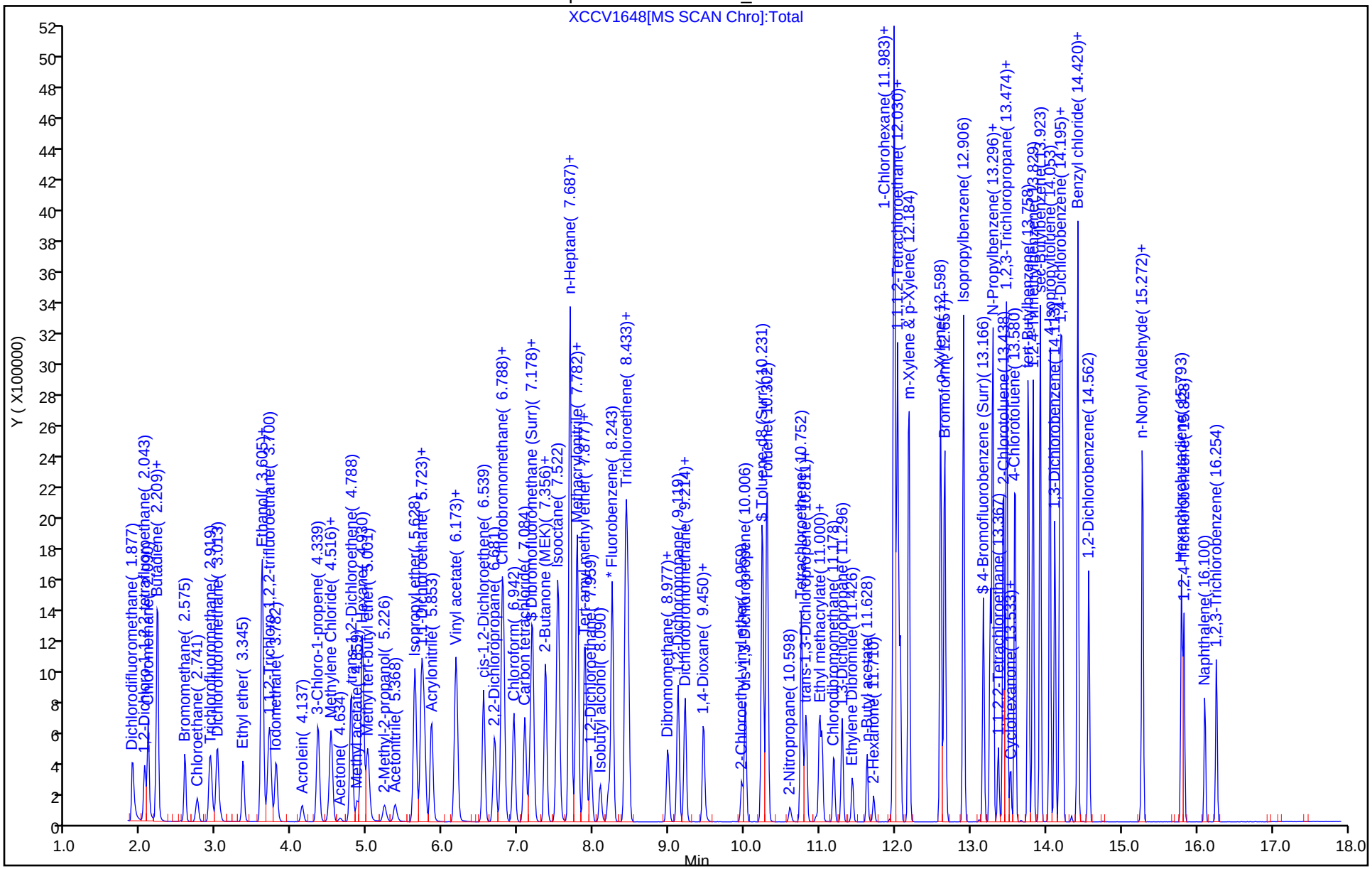
8260 NewWkMix_00269	Amount Added: 10.00	Units: uL	
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00085	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:44:20 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XCCV1648.D

Injection Date:	04-Apr-2018 22:16:30	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
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XBFB1616.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 03-Apr-2018 21:04:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: 160-0012973-001
Misc. Info.: BFB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 04-Apr-2018 15:16:06 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: hannj Date: 04-Apr-2018 15:12:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 114 BFB	95	3.942	3.942	0.000	0	283485	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

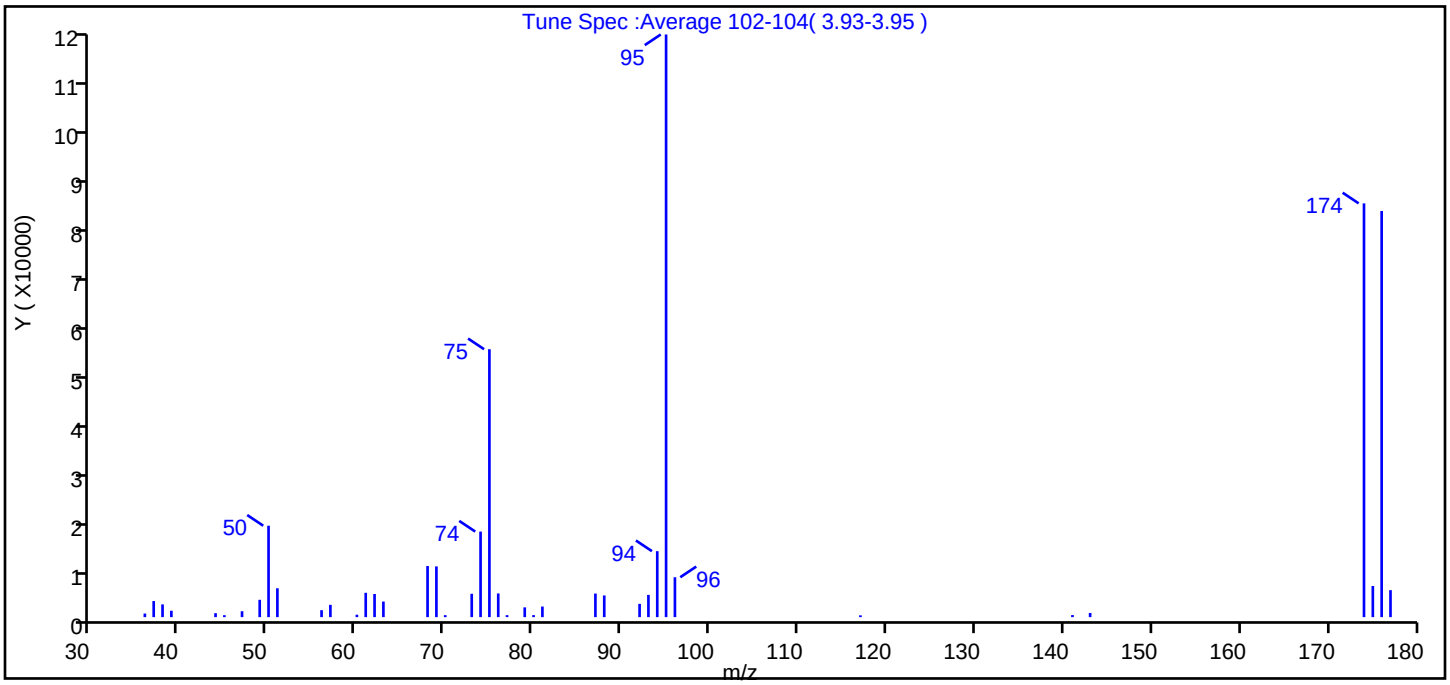
BFB_00081 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XBFB1616.D
Injection Date: 03-Apr-2018 21:04:30 Instrument ID: VMSX
Lims ID: BFB
Client ID:
Operator ID: JDH 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	15.7
75	30 to 60% of m/z 95	46.0
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	71.0
175	5 to 9% of m/z 174	5.3 (7.5)
176	Greater than 95% but less than 101% of m/z 174	69.7 (98.2)
177	5 to 9% of m/z 176	4.6 (6.6)

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XBFB1616.D\5mL-8260-MSX.rslt\spectra.d
Injection Date: 03-Apr-2018 21:04:30
Spectrum: Tune Spec :Average 102-104(3.93-3.95)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 41

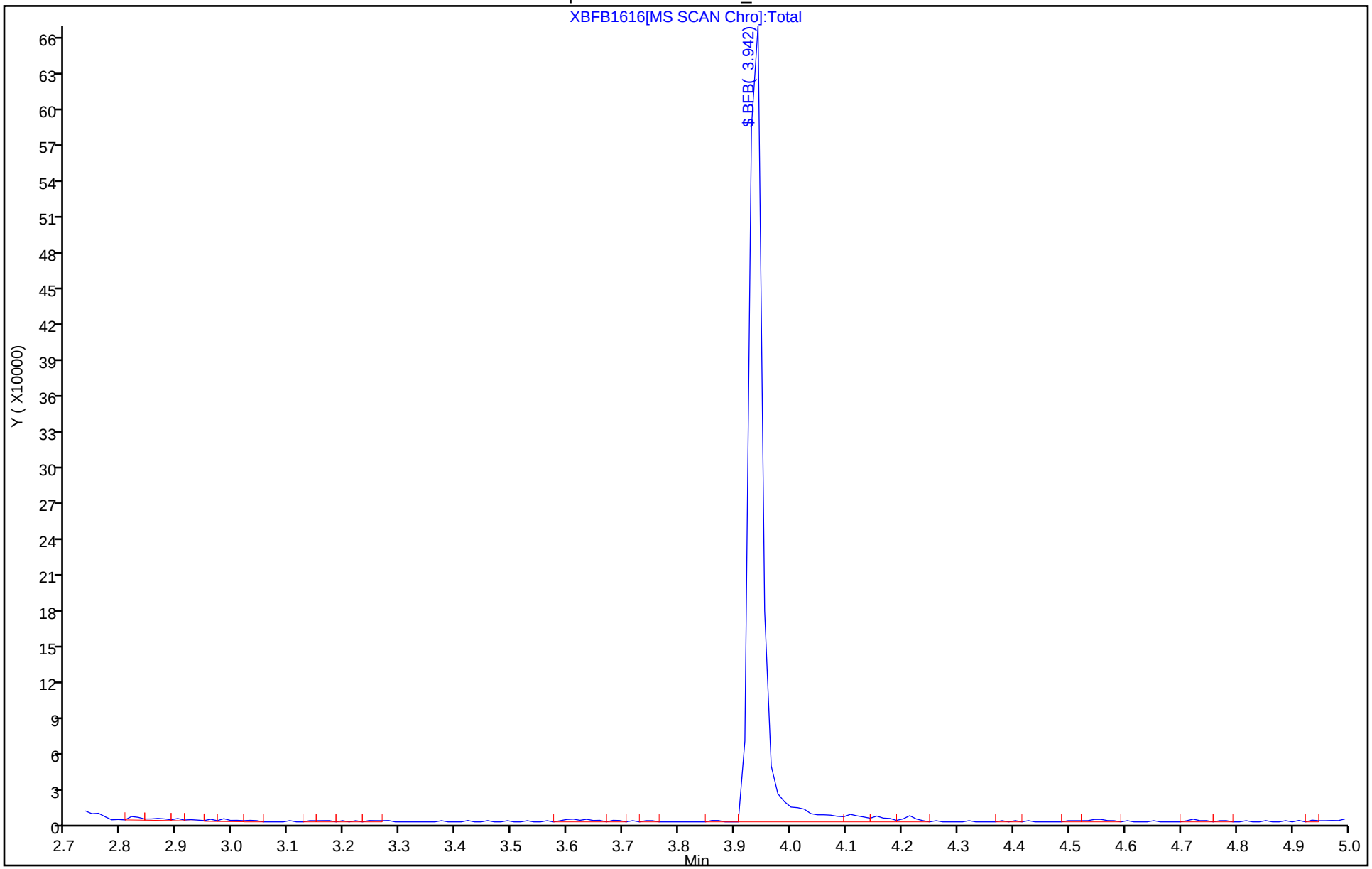
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	697	57.00	2382	76.00	4583	96.00	7726
37.00	3118	60.00	471	77.00	388	117.00	349
38.00	2471	61.00	4715	79.00	1894	141.00	404
39.00	1240	62.00	4482	80.00	397	143.00	813
44.00	768	63.00	3020	81.00	2052	174.00	80120
45.00	377	68.00	9898	87.00	4568	175.00	6029
47.00	1144	69.00	9822	88.00	4200	176.00	78648
49.00	3358	70.00	384	92.00	2575	177.00	5228
50.00	17704	73.00	4524	93.00	4307		
51.00	5594	74.00	16568	94.00	12776		
56.00	1353	75.00	51880	95.00	112824		

Report Date: 04-Apr-2018 15:16:07 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XBFB1616.D

Injection Date:	03-Apr-2018 21:04:30	Instrument ID:	VMSX	Operator ID:	JDH
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\20180404-12978.b\XBFB1630.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 04-Apr-2018 14:37:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: 160-0012978-002
Misc. Info.: BFB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 04-Apr-2018 17:47:10 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: hannj Date: 04-Apr-2018 17:47:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 114 BFB	95	3.942	3.942	0.000	0	242974	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

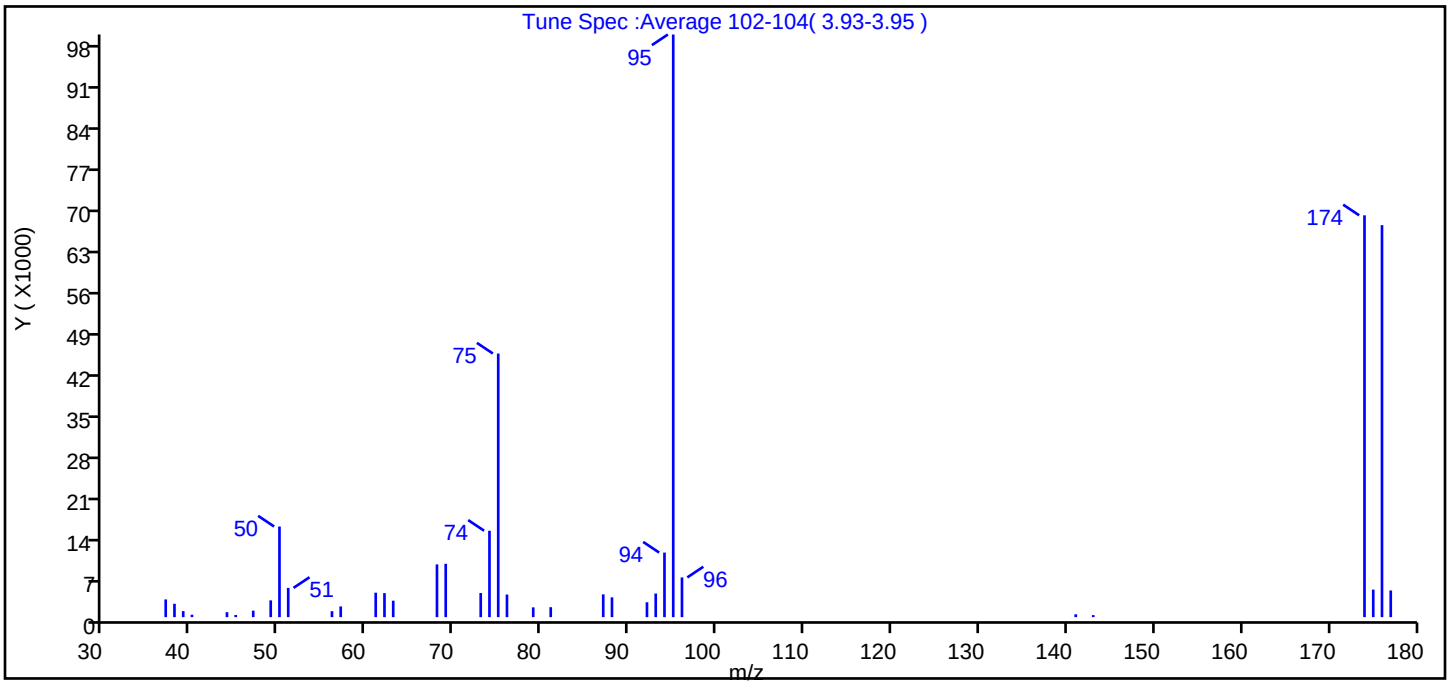
BFB_00081 Amount Added: 2.00 Units: uL

MS Tune Report

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XBFB1630.D
Injection Date: 04-Apr-2018 14:37:30 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	15.6
75	30 to 60% of m/z 95	45.2
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	69.0
175	5 to 9% of m/z 174	4.7 (6.9)
176	Greater than 95% but less than 101% of m/z 174	67.3 (97.6)
177	5 to 9% of m/z 176	4.6 (6.8)

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XBFB1630.D\5mL-8260-MSX.rslt\spectra.d
Injection Date: 04-Apr-2018 14:37:30
Spectrum: Tune Spec :Average 102-104(3.93-3.95)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 36

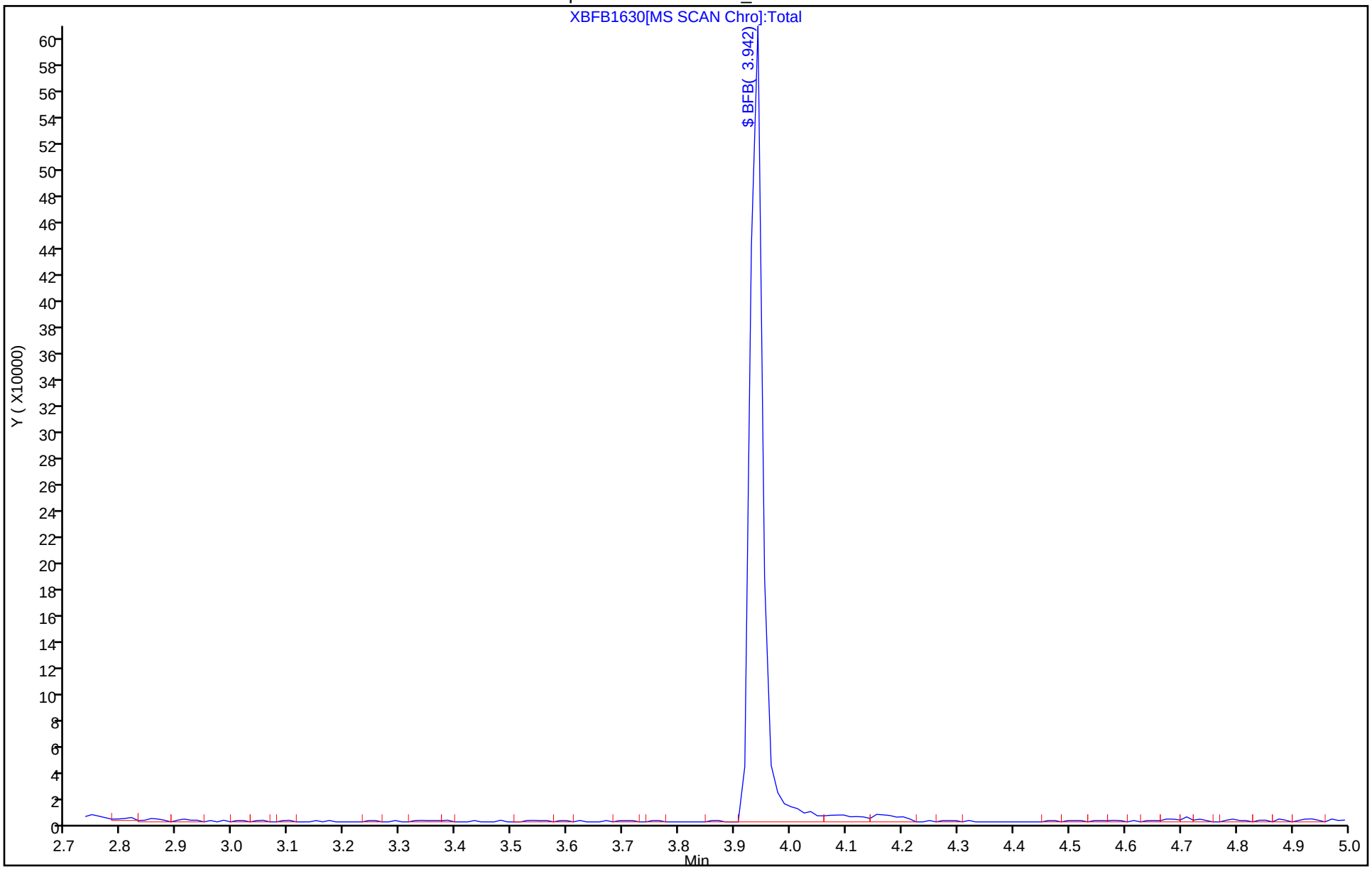
m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	3021	51.00	4987	74.00	14723	94.00	11003
38.00	2278	56.00	1018	75.00	44920	95.00	99288
39.00	1028	57.00	1823	76.00	3850	96.00	6769
40.00	415	61.00	4168	79.00	1670	141.00	484
44.00	848	62.00	4097	81.00	1698	143.00	349
45.00	369	63.00	2804	87.00	3880	174.00	68472
47.00	1106	68.00	8985	88.00	3371	175.00	4693
49.00	2858	69.00	9090	92.00	2540	176.00	66800
50.00	15443	73.00	4114	93.00	4023	177.00	4545

Report Date: 04-Apr-2018 17:47:10 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XBFB1630.D

Injection Date:	04-Apr-2018 14:37:30	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		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 160-358977/7

Matrix: Water | Lab File ID: XBLK1635.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 16:51

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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.: 280-107941-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 160-358977/7

Matrix: Water | Lab File ID: XBLK1635.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 16:51

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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)	105		81-118
460-00-4	4-Bromofluorobenzene (Surr)	100		85-114
1868-53-7	Dibromofluoromethane (Surr)	104		80-119
2037-26-5	Toluene-d8 (Surr)	99		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XBLK1635.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 04-Apr-2018 16:51:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-007
Misc. Info.: MB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:43:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.877					ND	
2 1,2-Dichloro-1,1,2,2-tetra	135		2.043					ND	
3 Chloromethane	50		2.090					ND	
4 Vinyl chloride	62		2.197					ND	
121 Butadiene	39		2.209					ND	
5 Bromomethane	94		2.576					ND	
6 Chloroethane	64		2.741					ND	
7 Trichlorofluoromethane	101		2.907					ND	
122 Dichlorofluoromethane	67		3.001					ND	
8 Ethyl ether	74		3.345					ND	
9 1,1-Dichloroethene	96		3.593					ND	
11 Ethanol	45		3.605					ND	
10 Carbon disulfide	76		3.605					ND	
12 1,1,2-Trichloro-1,2,2-trif	151		3.700					ND	
13 Iodomethane	142		3.782					ND	
14 Acrolein	56		4.126					ND	
15 3-Chloro-1-propene	39		4.339					ND	
16 Isopropyl alcohol	45		4.492					ND	
17 Methylene Chloride	84		4.516					ND	
18 Acetone	43		4.634					ND	
19 trans-1,2-Dichloroethene	96		4.776					ND	
20 Methyl acetate	74		4.859					ND	
21 Hexane	86		4.930					ND	
22 Methyl tert-butyl ether	73		5.001					ND	
23 2-Methyl-2-propanol	59		5.226					ND	
24 Acetonitrile	41		5.368					ND	
25 Isopropyl ether	45		5.628					ND	
27 2-Chloro-1,3-butadiene	53		5.711					ND	
28 1,1-Dichloroethane	63		5.747					ND	
S 26 1,2-Dichloroethene, Total	96		5.816					ND	
29 Acrylonitrile	53		5.853					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		6.173					ND	
31 Vinyl acetate	43		6.185					ND	
32 cis-1,2-Dichloroethene	96		6.540					ND	
33 2,2-Dichloropropane	77		6.682					ND	
34 Cyclohexane	84		6.788					ND	
35 Chlorobromomethane	128		6.812					ND	
36 Chloroform	83		6.942					ND	
37 Carbon tetrachloride	117		7.084					ND	
39 Ethyl acetate	45		7.155					ND	
38 Tetrahydrofuran	71		7.155					ND	
$ 41 Dibromofluoromethane (Surr	113	7.178	7.179	0.000	93	379511	50.0	52.0	
40 1,1,1-Trichloroethane	97		7.190					ND	
42 1,1-Dichloropropene	75		7.356					ND	
43 2-Butanone (MEK)	43		7.380					ND	
124 Isooctane	57		7.522					ND	
117 n-Heptane	43		7.687					ND	
44 Benzene	78		7.687					ND	
45 Propionitrile	54		7.758					ND	
46 Methacrylonitrile	41		7.782					ND	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	389676	50.0	52.3	
48 Tert-amyl methyl ether	73		7.888					ND	
49 1,2-Dichloroethane	62		7.959					ND	
50 Isobutyl alcohol	42		8.090					ND	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1895357	50.0	50.0	
52 Methylcyclohexane	55		8.421					ND	
125 1,4-Difluorobenzene	114		8.427					ND	
53 Trichloroethene	95		8.456					ND	
A 126 C6-C12	1	8.915	(3.966-13.864)		0	246122			NC
54 n-Butanol	56		8.977					ND	
55 Dibromomethane	93		8.989					ND	
56 1,2-Dichloropropane	63		9.119					ND	
123 Ethyl acrylate	55		9.202					ND	
57 Dichlorobromomethane	83		9.214					ND	
58 Methyl methacrylate	69		9.450					ND	
59 1,4-Dioxane	88		9.486					ND	
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63		9.959					ND	
61 cis-1,3-Dichloropropene	75		10.007					ND	
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1797343	50.0	49.6	
63 Toluene	92		10.302					ND	
64 2-Nitropropane	43		10.598					ND	
65 Tetrachloroethene	164		10.752					ND	
66 4-Methyl-2-pentanone (MIBK	43		10.788					ND	
67 trans-1,3-Dichloropropene	75		10.823					ND	
68 1,1,2-Trichloroethane	83		11.001					ND	
69 Ethyl methacrylate	69		11.024					ND	
70 Chlorodibromomethane	129		11.190					ND	
71 1,3-Dichloropropane	76		11.296					ND	
72 Ethylene Dibromide	107		11.427					ND	
S 73 1,3-Dichloropropene, Total	75		11.620					ND	
118 n-Butyl acetate	43		11.628					ND	
74 2-Hexanone	43		11.711					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	11.971	11.971	0.000	88	1138691	50.0	50.0	
75 1-Chlorohexane	91		11.983					ND	
77 Chlorobenzene	112		11.995					ND	
78 Ethylbenzene	91		12.030					ND	
79 1,1,1,2-Tetrachloroethane	131		12.066					ND	
80 m-Xylene & p-Xylene	106		12.184					ND	
82 o-Xylene	106		12.598					ND	
83 Styrene	104		12.657					ND	
84 Bromoform	173		12.669					ND	
85 Isopropylbenzene	105		12.906					ND	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	85	589854	50.0	50.1	
87 Bromobenzene	156		13.261					ND	
88 N-Propylbenzene	91		13.296					ND	
89 1,1,2,2-Tetrachloroethane	83		13.367					ND	
90 2-Chlorotoluene	91		13.438					ND	
91 1,3,5-Trimethylbenzene	105		13.474					ND	
92 1,2,3-Trichloropropane	110		13.485					ND	
93 trans-1,4-Dichloro-2-buten	53		13.521					ND	
94 Cyclohexanone	55		13.533					ND	
95 4-Chlorotoluene	91		13.592					ND	
96 tert-Butylbenzene	119		13.769					ND	
81 Pentachloroethane	167		13.776					ND	
97 1,2,4-Trimethylbenzene	105		13.829					ND	
98 sec-Butylbenzene	105		13.923					ND	
99 4-Isopropyltoluene	119		14.053					ND	
100 1,3-Dichlorobenzene	146		14.113					ND	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	96	512482	50.0	50.0	
102 1,4-Dichlorobenzene	146		14.195					ND	
119 1,2,3-Trimethylbenzene	105		14.219					ND	
103 n-Butylbenzene	134		14.420					ND	
120 Benzyl chloride	126		14.420					ND	
104 1,2-Dichlorobenzene	146		14.562					ND	
105 1,2-Dibromo-3-Chloropropan	157		15.260					ND	
106 n-Nonyl Aldehyde	57		15.272					ND	
107 1,3,5-Trichlorobenzene	180		15.284					ND	
108 Hexachlorobutadiene	225		15.793					ND	
109 1,2,4-Trichlorobenzene	180		15.828					ND	
110 Naphthalene	128		16.101					ND	
111 1,2,3-Trichlorobenzene	180		16.254					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:

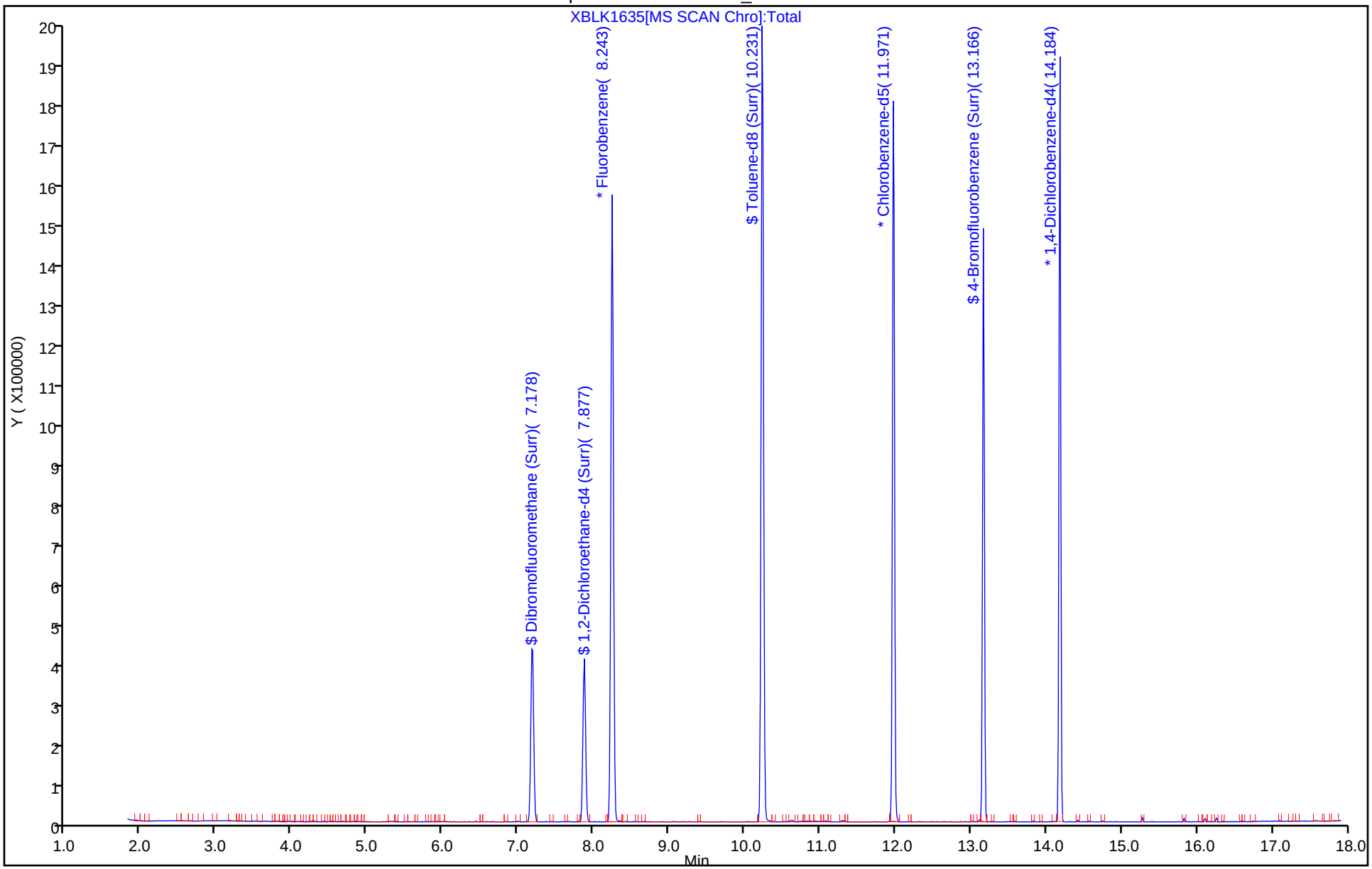
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00085	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:44:06 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XBLK1635.D

Injection Date:	04-Apr-2018 16:51:30	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\20180404-12978.b\XBLK1635.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 04-Apr-2018 16:51:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-007
Misc. Info.: MB
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:43:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	52.0	103.97
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	52.3	104.54
$ 62 Toluene-d8 (Surr)	50.0	49.6	99.17
$ 86 4-Bromofluorobenzene (Surr)	50.0	50.1	100.26

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 160-358977/4

Matrix: Water | Lab File ID: XLCS1632.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 15:35

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	49.8		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	47.3		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	49.7		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	49.0		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	50.8		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	49.9		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	53.9		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	48.0		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	49.2		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	50.8		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	47.1		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	50.4		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	48.9		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	48.9		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	51.0		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	49.1		20	5.0	0.39
95-49-8	2-Chlorotoluene	49.2		5.0	2.0	0.34
591-78-6	2-Hexanone	52.2		20	2.0	0.59
106-43-4	4-Chlorotoluene	49.5		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	49.9		20	10	6.7
71-43-2	Benzene	47.9		5.0	1.0	0.25
108-86-1	Bromobenzene	49.0		5.0	2.0	0.33
74-97-5	Bromochloromethane	49.8		5.0	2.0	0.55
75-27-4	Bromodichloromethane	50.4		5.0	2.0	0.25
75-25-2	Bromoform	50.7		5.0	1.0	0.37
74-83-9	Bromomethane	47.4		10	2.0	0.40
75-15-0	Carbon disulfide	51.3		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	50.1		5.0	1.0	0.36
108-90-7	Chlorobenzene	49.1		5.0	1.0	0.38
75-00-3	Chloroethane	45.0		10	1.0	0.38
67-66-3	Chloroform	48.5		5.0	1.0	0.15
74-87-3	Chloromethane	48.8		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	49.4		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 160-358977/4

Matrix: Water | Lab File ID: XLCS1632.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 15:35

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | 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	51.5		5.0	1.0	0.33
74-95-3	Dibromomethane	50.1		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	52.5		10	2.0	0.45
100-41-4	Ethylbenzene	46.7		5.0	1.0	0.30
98-82-8	Isopropylbenzene	50.5		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	49.1		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	51.4		5.0	2.0	0.40
75-09-2	Methylene Chloride	50.1		7.5	5.0	1.7
91-20-3	Naphthalene	53.5		5.0	2.0	0.85
104-51-8	n-Butylbenzene	49.4		5.0	2.0	0.23
103-65-1	N-Propylbenzene	49.9		5.0	2.0	0.30
95-47-6	o-Xylene	49.3		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	49.8		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	48.7		5.0	2.0	0.31
100-42-5	Styrene	51.5		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	48.8		5.0	2.0	0.31
127-18-4	Tetrachloroethene	49.7		5.0	1.0	0.28
108-88-3	Toluene	49.3		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	52.8		5.0	1.0	0.35
79-01-6	Trichloroethene	48.1		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	47.0		5.0	2.0	0.22
75-01-4	Vinyl chloride	45.3		5.0	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		81-118
460-00-4	4-Bromofluorobenzene (Surr)	100		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	100		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XLCS1632.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 04-Apr-2018 15:35:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-004
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:41:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.877	0.012	99	688938	50.0	52.5	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	288178	50.0	53.4	
3 Chloromethane	50	2.090	2.090	0.000	98	714588	50.0	48.8	
4 Vinyl chloride	62	2.197	2.197	0.000	98	703880	50.0	45.3	
121 Butadiene	39	2.220	2.209	0.011	79	360560	50.0	47.4	
5 Bromomethane	94	2.575	2.576	-0.001	90	316745	50.0	47.4	
6 Chloroethane	64	2.741	2.741	0.000	98	235716	50.0	45.0	
7 Trichlorofluoromethane	101	2.907	2.907	0.000	98	679832	50.0	47.0	
122 Dichlorofluoromethane	67	3.001	3.001	0.000	96	691589	50.0	45.5	
8 Ethyl ether	74	3.345	3.345	0.000	87	252707	50.0	51.0	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	94	546725	50.0	50.8	
11 Ethanol	45	3.605	3.605	0.000	24	82464	2000.0	1828.2	
10 Carbon disulfide	76	3.605	3.605	0.000	98	1879267	50.0	51.3	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	94	386765	50.0	50.0	
13 Iodomethane	142	3.782	3.782	0.000	99	717511	50.0	50.6	
14 Acrolein	56	4.126	4.126	0.000	99	183159	250.0	250.4	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	93	439036	50.0	47.7	
16 Isopropyl alcohol	45	4.481	4.492	-0.011	99	121309	500.0	505.2	
17 Methylene Chloride	84	4.516	4.516	0.000	91	496175	50.0	50.1	
18 Acetone	43	4.634	4.634	0.000	96	52642	50.0	49.9	
19 trans-1,2-Dichloroethene	96	4.776	4.776	0.000	97	575623	50.0	49.3	
20 Methyl acetate	74	4.859	4.859	0.000	96	77343	250.0	268.1	
21 Hexane	86	4.930	4.930	0.000	79	202390	50.0	51.8	
22 Methyl tert-butyl ether	73	5.001	5.001	0.000	92	911980	50.0	51.4	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	99	227910	500.0	524.2	
24 Acetonitrile	41	5.368	5.368	0.000	99	207509	500.0	457.9	
25 Isopropyl ether	45	5.628	5.628	0.000	94	1384983	50.0	49.2	
27 2-Chloro-1,3-butadiene	53	5.711	5.711	0.000	92	921766	50.0	49.0	
28 1,1-Dichloroethane	63	5.747	5.747	0.000	97	1032517	50.0	49.0	
29 Acrylonitrile	53	5.841	5.853	-0.012	100	870963	500.0	495.5	
30 Tert-butyl ethyl ether	59	6.161	6.173	-0.012	97	1385084	50.0	49.6	

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	6.185	6.185	-0.001	97	635708	50.0	52.0	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	80	578919	50.0	49.4	
33 2,2-Dichloropropane	77	6.681	6.682	-0.001	87	671791	50.0	51.0	
34 Cyclohexane	84	6.788	6.788	0.000	85	1009538	50.0	49.9	
35 Chlorobromomethane	128	6.812	6.812	0.000	97	180195	50.0	49.8	
36 Chloroform	83	6.942	6.942	0.000	92	878349	50.0	48.5	
37 Carbon tetrachloride	117	7.084	7.084	0.000	97	684072	50.0	50.1	
39 Ethyl acetate	45	7.155	7.155	0.000	98	60288	100.0	108.2	
38 Tetrahydrofuran	71	7.143	7.155	-0.012	86	57778	100.0	109.9	
$ 41 Dibromofluoromethane (Surr	113	7.178	7.179	0.000	93	390229	50.0	50.3	
40 1,1,1-Trichloroethane	97	7.178	7.190	-0.012	98	840724	50.0	49.9	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	99	822515	50.0	49.9	
43 2-Butanone (MEK)	43	7.380	7.380	0.000	99	84273	50.0	49.1	
124 Isooctane	57	7.522	7.522	0.000	93	2739533	50.0	48.6	
117 n-Heptane	43	7.675	7.687	-0.012	87	923568	50.0	48.7	
44 Benzene	78	7.687	7.687	0.000	96	2253573	50.0	47.9	
45 Propionitrile	54	7.758	7.758	0.000	96	330425	500.0	499.6	
46 Methacrylonitrile	41	7.782	7.782	0.000	83	1161722	500.0	478.9	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.865	7.877	-0.012	98	384300	50.0	48.5	
48 Tert-amyl methyl ether	73	7.888	7.888	0.000	98	1047558	50.0	50.8	
49 1,2-Dichloroethane	62	7.959	7.959	0.000	98	492891	50.0	47.1	
50 Isobutyl alcohol	42	8.078	8.090	-0.012	96	127455	1250.0	1145.4	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	2012638	50.0	50.0	
52 Methylcyclohexane	55	8.421	8.421	0.000	86	974345	50.0	48.5	
53 Trichloroethene	95	8.456	8.456	0.000	97	565661	50.0	48.1	
54 n-Butanol	56	8.965	8.977	-0.012	78	178961	1250.0	1303.4	
55 Dibromomethane	93	8.977	8.989	-0.012	97	198296	50.0	50.1	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	95	533799	50.0	50.4	
123 Ethyl acrylate	55	9.202	9.202	0.000	98	361248	50.0	52.9	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	587338	50.0	50.4	
58 Methyl methacrylate	69	9.450	9.450	0.000	86	397556	100.0	105.2	
59 1,4-Dioxane	88	9.486	9.486	0.000	95	48197	1000.0	1063.0	
60 2-Chloroethyl vinyl ether	63	9.959	9.959	0.000	88	190453	50.0	54.5	
61 cis-1,3-Dichloropropene	75	10.007	10.007	0.000	98	705039	50.0	52.2	
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1909732	50.0	50.0	
63 Toluene	92	10.291	10.302	-0.011	99	1413693	50.0	49.3	
64 2-Nitropropane	43	10.598	10.598	0.000	96	94602	100.0	98.4	
65 Tetrachloroethene	164	10.752	10.752	0.000	96	437792	50.0	49.7	
66 4-Methyl-2-pentanone (MIBK	43	10.788	10.788	0.000	90	188368	50.0	51.4	
67 trans-1,3-Dichloropropene	75	10.811	10.823	-0.012	89	560978	50.0	52.8	
68 1,1,2-Trichloroethane	83	10.989	11.001	-0.012	88	255534	50.0	49.7	
69 Ethyl methacrylate	69	11.024	11.024	0.000	84	388026	50.0	52.9	a
70 Chlorodibromomethane	129	11.178	11.190	-0.012	90	313581	50.0	51.5	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	86	556342	50.0	48.9	
72 Ethylene Dibromide	107	11.426	11.427	-0.001	99	255459	50.0	50.2	
118 n-Butyl acetate	43	11.628	11.628	0.000	93	347512	50.0	52.7	
74 2-Hexanone	43	11.710	11.711	-0.001	88	134774	50.0	52.2	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	88	1200447	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	0.000	86	1071156	50.0	53.1	
77 Chlorobenzene	112	11.994	11.995	0.000	97	1329577	50.0	49.1	
78 Ethylbenzene	91	12.030	12.030	0.000	96	2606565	50.0	46.7	
79 1,1,1,2-Tetrachloroethane	131	12.065	12.066	-0.001	94	391145	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
80 m-Xylene & p-Xylene	106	12.172	12.184	-0.012	99	998299	50.0	49.1	
82 o-Xylene	106	12.598	12.598	0.000	97	919685	50.0	49.3	
83 Styrene	104	12.657	12.657	0.000	94	1434286	50.0	51.5	
84 Bromoform	173	12.669	12.669	0.000	97	149018	50.0	50.7	
85 Isopropylbenzene	105	12.906	12.906	0.000	96	2506715	50.0	50.5	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	85	616472	50.0	50.2	
87 Bromobenzene	156	13.261	13.261	0.000	94	455287	50.0	49.0	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	2978921	50.0	49.9	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	94	295725	50.0	47.3	
90 2-Chlorotoluene	91	13.426	13.438	-0.012	96	1685577	50.0	49.2	
91 1,3,5-Trimethylbenzene	105	13.474	13.474	0.000	94	1901485	50.0	48.9	
92 1,2,3-Trichloropropane	110	13.485	13.485	0.000	81	84824	50.0	48.0	
93 trans-1,4-Dichloro-2-buten	53	13.521	13.521	0.000	89	83199	50.0	48.2	
94 Cyclohexanone	55	13.521	13.533	-0.012	70	68741	500.0	510.5	
95 4-Chlorotoluene	91	13.580	13.592	-0.012	98	1690986	50.0	49.5	
96 tert-Butylbenzene	119	13.758	13.769	-0.011	92	1641185	50.0	48.8	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	97	1893874	50.0	49.2	
98 sec-Butylbenzene	105	13.923	13.923	0.000	94	2593518	50.0	48.7	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	96	2081220	50.0	49.8	
100 1,3-Dichlorobenzene	146	14.113	14.113	0.000	97	912475	50.0	48.9	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	95	534556	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	94	880607	50.0	48.4	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	98	1714612	50.0	47.7	
103 n-Butylbenzene	134	14.420	14.420	0.000	97	534800	50.0	49.4	
120 Benzyl chloride	126	14.420	14.420	0.000	89	99913	50.0	55.1	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	97	739071	50.0	47.7	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	85	37142	50.0	50.8	
106 n-Nonyl Aldehyde	57	15.272	15.272	0.000	61	193768	50.0	49.8	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	620061	50.0	47.7	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	97	338392	50.0	47.9	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	93	465908	50.0	52.0	
110 Naphthalene	128	16.100	16.101	-0.001	97	760081	50.0	53.5	
111 1,2,3-Trichlorobenzene	180	16.254	16.254	0.000	95	375902	50.0	53.9	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

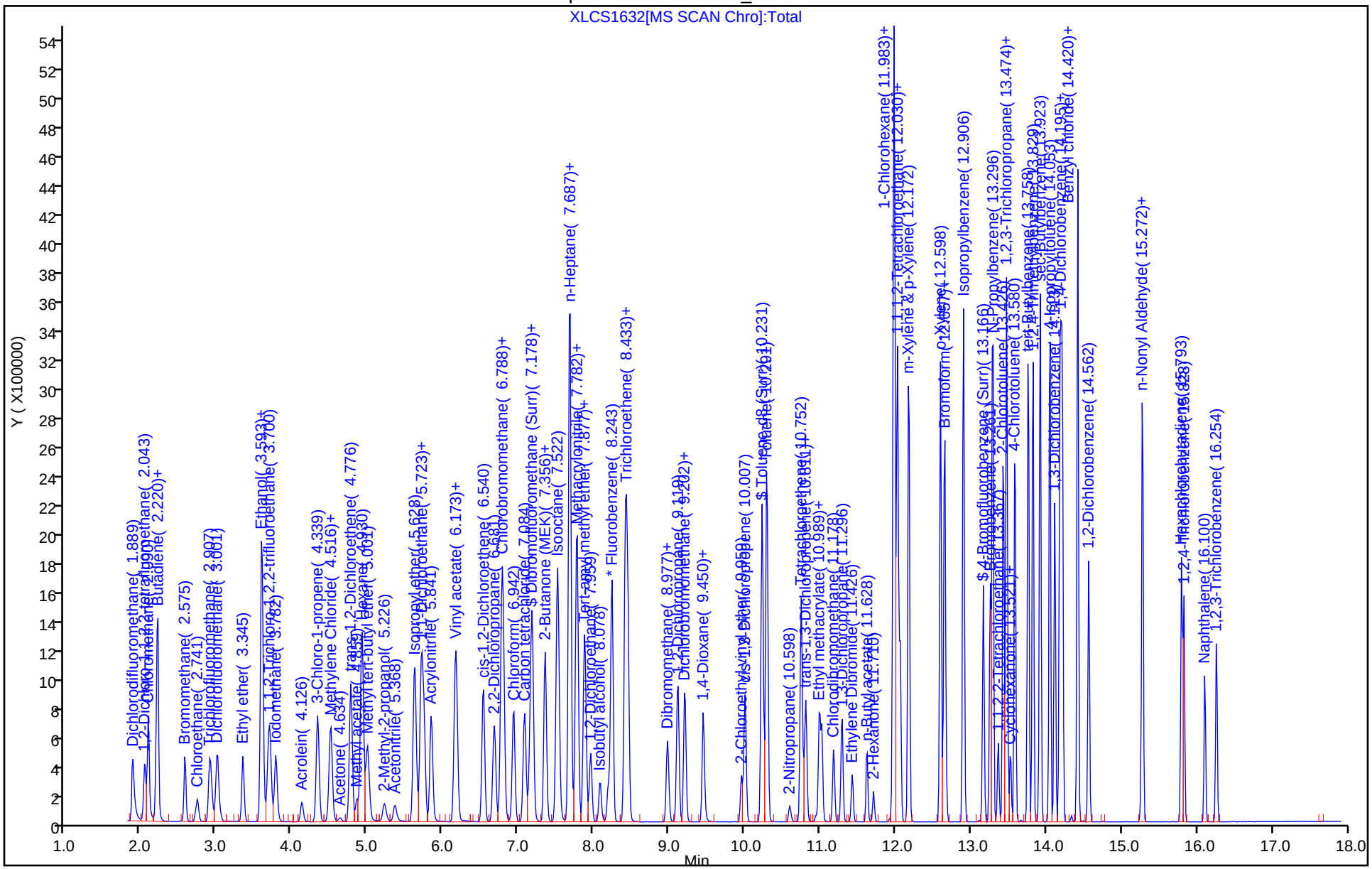
8260 NewWkMix_00269	Amount Added: 10.00	Units: uL	
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00085	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:43:59 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XLCS1632.D

Injection Date:	04-Apr-2018 15:35:30	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\20180404-12978.b\XLCS1632.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 04-Apr-2018 15:35:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-004
Misc. Info.: LCS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:41:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.3	100.68
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	48.5	97.09
$ 62 Toluene-d8 (Surr)	50.0	50.0	99.95
$ 86 4-Bromofluorobenzene (Surr)	50.0	50.2	100.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 160-358977/5

Matrix: Water | Lab File ID: XLCS1633.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 16:01

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	48.7		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	49.4		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	46.7		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	50.0		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	48.5		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	49.9		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	49.1		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	54.6		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	47.8		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	49.2		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	51.6		10	2.0	1.2
106-93-4	1,2-Dibromoethane	50.8		5.0	2.0	0.44
107-06-2	1,2-Dichloroethane	46.8		5.0	1.0	0.37
78-87-5	1,2-Dichloropropane	49.9		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	49.5		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	48.9		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)	48.9		20	5.0	0.39
95-49-8	2-Chlorotoluene	49.8		5.0	2.0	0.34
591-78-6	2-Hexanone	50.1		20	2.0	0.59
106-43-4	4-Chlorotoluene	49.9		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	50.2		20	2.0	0.33
67-64-1	Acetone	47.9		20	10	6.7
71-43-2	Benzene	47.5		5.0	1.0	0.25
108-86-1	Bromobenzene	49.5		5.0	2.0	0.33
74-97-5	Bromochloromethane	50.5		5.0	2.0	0.55
75-27-4	Bromodichloromethane	49.8		5.0	2.0	0.25
75-25-2	Bromoform	51.4		5.0	1.0	0.37
74-83-9	Bromomethane	47.8		10	2.0	0.40
75-15-0	Carbon disulfide	50.4		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	49.7		5.0	1.0	0.36
108-90-7	Chlorobenzene	48.9		5.0	1.0	0.38
75-00-3	Chloroethane	46.9		10	1.0	0.38
67-66-3	Chloroform	47.6		5.0	1.0	0.15
74-87-3	Chloromethane	47.2		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	48.3		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 160-358977/5

Matrix: Water | Lab File ID: XLCS1633.D

Analysis Method: 8260C DOD | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 16:01

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	51.8		5.0	1.0	0.34
124-48-1	Dibromochloromethane	51.1		5.0	1.0	0.33
74-95-3	Dibromomethane	49.2		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	51.2		10	2.0	0.45
100-41-4	Ethylbenzene	46.7		5.0	1.0	0.30
98-82-8	Isopropylbenzene	51.3		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	49.1		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	50.1		5.0	2.0	0.40
75-09-2	Methylene Chloride	49.0		7.5	5.0	1.7
91-20-3	Naphthalene	52.8		5.0	2.0	0.85
104-51-8	n-Butylbenzene	49.9		5.0	2.0	0.23
103-65-1	N-Propylbenzene	50.5		5.0	2.0	0.30
95-47-6	o-Xylene	48.5		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	50.1		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	49.3		5.0	2.0	0.31
100-42-5	Styrene	49.8		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	49.6		5.0	2.0	0.31
127-18-4	Tetrachloroethene	49.2		5.0	1.0	0.28
108-88-3	Toluene	49.3		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	52.0		5.0	1.0	0.35
79-01-6	Trichloroethene	47.3		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	46.7		5.0	2.0	0.22
75-01-4	Vinyl chloride	46.1		5.0	1.0	0.43

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		81-118
460-00-4	4-Bromofluorobenzene (Surr)	104		85-114
1868-53-7	Dibromofluoromethane (Surr)	102		80-119
2037-26-5	Toluene-d8 (Surr)	101		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XLCS1633.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 04-Apr-2018 16:01:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-005
Misc. Info.: LCSD
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:42:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.877	1.877	0.000	99	668858	50.0	51.2	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	281415	50.0	52.4	
3 Chloromethane	50	2.090	2.090	0.000	98	688870	50.0	47.2	
4 Vinyl chloride	62	2.197	2.197	0.000	98	714658	50.0	46.1	
121 Butadiene	39	2.221	2.209	0.011	79	361514	50.0	47.7	
5 Bromomethane	94	2.575	2.576	-0.001	90	318205	50.0	47.8	
6 Chloroethane	64	2.741	2.741	0.000	98	244247	50.0	46.9	
7 Trichlorofluoromethane	101	2.907	2.907	0.000	98	672885	50.0	46.7	
122 Dichlorofluoromethane	67	3.001	3.001	0.000	96	695568	50.0	46.0	
8 Ethyl ether	74	3.345	3.345	0.000	87	247640	50.0	50.1	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	95	534432	50.0	49.9	
11 Ethanol	45	3.593	3.605	-0.012	26	87626	2000.0	1949.5	
10 Carbon disulfide	76	3.605	3.605	0.000	98	1839523	50.0	50.4	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	95	377265	50.0	49.0	
13 Iodomethane	142	3.782	3.782	0.000	99	700981	50.0	49.6	
14 Acrolein	56	4.126	4.126	0.000	99	176524	250.0	242.2	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	94	430705	50.0	46.9	
16 Isopropyl alcohol	45	4.481	4.492	-0.011	99	119751	500.0	500.5	
17 Methylene Chloride	84	4.516	4.516	0.000	90	484412	50.0	49.0	
18 Acetone	43	4.634	4.634	0.000	95	50376	50.0	47.9	
19 trans-1,2-Dichloroethene	96	4.776	4.776	0.000	97	571803	50.0	49.2	
20 Methyl acetate	74	4.859	4.859	0.000	96	77856	250.0	270.9	
21 Hexane	86	4.930	4.930	0.000	79	198542	50.0	51.0	
22 Methyl tert-butyl ether	73	5.001	5.001	0.000	90	886639	50.0	50.1	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	99	225647	500.0	521.0	
24 Acetonitrile	41	5.356	5.368	-0.012	98	214444	500.0	474.9	
25 Isopropyl ether	45	5.628	5.628	0.000	94	1342976	50.0	47.9	
27 2-Chloro-1,3-butadiene	53	5.711	5.711	0.000	90	908658	50.0	48.5	
28 1,1-Dichloroethane	63	5.747	5.747	0.000	95	1017135	50.0	48.5	
29 Acrylonitrile	53	5.841	5.853	-0.012	100	861418	500.0	491.8	
30 Tert-butyl ethyl ether	59	6.173	6.173	0.000	97	1366493	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
31 Vinyl acetate	43	6.185	6.185	0.000	97	613113	50.0	50.3	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	80	564314	50.0	48.3	
33 2,2-Dichloropropane	77	6.682	6.682	0.000	86	655761	50.0	50.0	
34 Cyclohexane	84	6.788	6.788	0.000	85	998835	50.0	49.6	
35 Chlorobromomethane	128	6.812	6.812	0.000	97	182072	50.0	50.5	
36 Chloroform	83	6.942	6.942	0.000	93	857880	50.0	47.6	
37 Carbon tetrachloride	117	7.084	7.084	0.000	97	675821	50.0	49.7	
39 Ethyl acetate	45	7.155	7.155	0.000	98	60687	100.0	109.3	
38 Tetrahydrofuran	71	7.143	7.155	-0.012	87	56336	100.0	107.5	
$ 41 Dibromofluoromethane (Surr	113	7.179	7.179	0.000	93	392204	50.0	50.8	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	98	829095	50.0	49.4	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	99	806649	50.0	49.1	
43 2-Butanone (MEK)	43	7.380	7.380	0.000	99	83570	50.0	48.9	
124 Isooctane	57	7.522	7.522	0.000	93	2685101	50.0	47.8	
117 n-Heptane	43	7.675	7.687	-0.012	70	892030	50.0	47.3	
44 Benzene	78	7.687	7.687	0.000	96	2223791	50.0	47.5	
45 Propionitrile	54	7.758	7.758	0.000	96	322461	500.0	489.3	
46 Methacrylonitrile	41	7.782	7.782	0.000	83	1131736	500.0	468.2	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	99	383334	50.0	48.6	
48 Tert-amyl methyl ether	73	7.888	7.888	0.000	98	1032512	50.0	50.3	
49 1,2-Dichloroethane	62	7.959	7.959	0.000	98	488137	50.0	46.8	
50 Isobutyl alcohol	42	8.078	8.090	-0.012	96	124405	1250.0	1122.0	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	2005489	50.0	50.0	
52 Methylcyclohexane	55	8.421	8.421	0.000	87	962964	50.0	48.1	
53 Trichloroethene	95	8.456	8.456	0.000	97	554312	50.0	47.3	
54 n-Butanol	56	8.965	8.977	-0.012	78	176509	1250.0	1290.8	
55 Dibromomethane	93	8.977	8.989	-0.012	97	194184	50.0	49.2	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	96	526668	50.0	49.9	
123 Ethyl acrylate	55	9.202	9.202	0.000	97	348075	50.0	51.1	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	577834	50.0	49.8	
58 Methyl methacrylate	69	9.450	9.450	0.000	86	387329	100.0	102.9	
59 1,4-Dioxane	88	9.486	9.486	0.000	87	46595	1000.0	1031.3	a
60 2-Chloroethyl vinyl ether	63	9.959	9.959	0.000	88	180540	50.0	51.9	
61 cis-1,3-Dichloropropene	75	10.007	10.007	0.000	98	696709	50.0	51.8	
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1902461	50.0	50.6	
63 Toluene	92	10.291	10.302	-0.011	99	1388601	50.0	49.3	
64 2-Nitropropane	43	10.598	10.598	0.000	94	89613	100.0	95.2	
65 Tetrachloroethene	164	10.752	10.752	0.000	97	426007	50.0	49.2	
66 4-Methyl-2-pentanone (MIBK	43	10.788	10.788	0.000	89	181196	50.0	50.2	
67 trans-1,3-Dichloropropene	75	10.811	10.823	-0.012	89	543722	50.0	52.0	
68 1,1,2-Trichloroethane	83	10.989	11.001	-0.012	91	252546	50.0	50.0	
69 Ethyl methacrylate	69	11.024	11.024	0.000	85	382880	50.0	53.0	
70 Chlorodibromomethane	129	11.178	11.190	-0.012	90	306503	50.0	51.1	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	86	547152	50.0	48.9	
72 Ethylene Dibromide	107	11.427	11.427	-0.001	99	254162	50.0	50.8	
118 n-Butyl acetate	43	11.628	11.628	0.000	93	328993	50.0	50.7	
74 2-Hexanone	43	11.711	11.711	-0.001	88	127143	50.0	50.1	
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	89	1180707	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	0.000	87	1034579	50.0	52.2	
77 Chlorobenzene	112	11.994	11.995	0.000	97	1301919	50.0	48.9	
78 Ethylbenzene	91	12.030	12.030	0.000	98	2561906	50.0	46.7	
79 1,1,1,2-Tetrachloroethane	131	12.065	12.066	-0.001	94	376578	50.0	48.7	

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	12.184	12.184	0.000	99	981920	50.0	49.1	
82 o-Xylene	106	12.598	12.598	0.000	97	890454	50.0	48.5	
83 Styrene	104	12.657	12.657	0.000	94	1366401	50.0	49.8	
84 Bromoform	173	12.669	12.669	0.000	97	144354	50.0	51.4	
85 Isopropylbenzene	105	12.906	12.906	0.000	96	2433245	50.0	51.3	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	85	610408	50.0	52.0	
87 Bromobenzene	156	13.261	13.261	0.000	94	439327	50.0	49.5	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	2882963	50.0	50.5	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	94	279161	50.0	46.7	
90 2-Chlorotoluene	91	13.426	13.438	-0.012	96	1631092	50.0	49.8	
91 1,3,5-Trimethylbenzene	105	13.474	13.474	0.000	94	1842055	50.0	49.5	
92 1,2,3-Trichloropropane	110	13.485	13.485	0.000	79	80789	50.0	47.8	
93 trans-1,4-Dichloro-2-buten	53	13.521	13.521	0.000	89	78000	50.0	47.2	
94 Cyclohexanone	55	13.533	13.533	0.000	72	63777	500.0	495.9	
95 4-Chlorotoluene	91	13.580	13.592	-0.012	98	1628196	50.0	49.9	
96 tert-Butylbenzene	119	13.758	13.769	-0.011	92	1593677	50.0	49.6	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	97	1809050	50.0	49.2	
98 sec-Butylbenzene	105	13.923	13.923	0.000	94	2510524	50.0	49.3	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	96	2004358	50.0	50.1	
100 1,3-Dichlorobenzene	146	14.113	14.113	0.000	97	878881	50.0	49.3	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	95	510923	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	94	846939	50.0	48.7	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	97	1624026	50.0	47.3	
103 n-Butylbenzene	134	14.420	14.420	0.000	97	516124	50.0	49.9	
120 Benzyl chloride	126	14.420	14.420	0.000	89	96080	50.0	55.5	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	96	712569	50.0	48.1	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	86	36075	50.0	51.6	
106 n-Nonyl Aldehyde	57	15.272	15.272	0.000	59	179580	50.0	48.3	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	97	597589	50.0	48.1	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	97	318145	50.0	47.1	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	94	452487	50.0	52.8	
110 Naphthalene	128	16.101	16.101	-0.001	97	717458	50.0	52.8	
111 1,2,3-Trichlorobenzene	180	16.254	16.254	0.000	95	363434	50.0	54.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

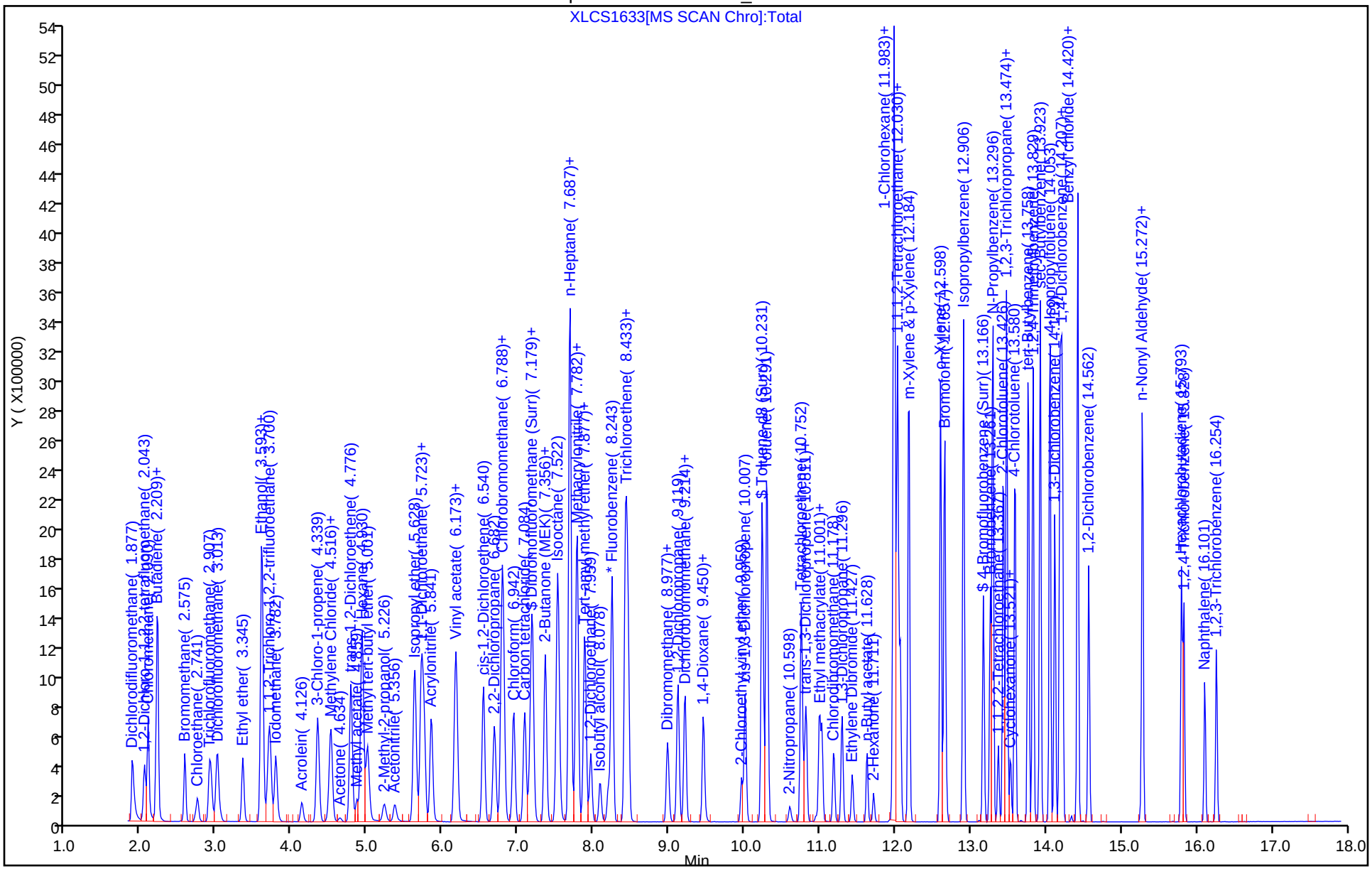
8260 NewWkMix_00269	Amount Added: 10.00	Units: uL	
I.S. Working_00163	Amount Added: 10.00	Units: uL	Run Reagent
8260 Surr 25_00085	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:44:01 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XLCS1633.D

Injection Date:	04-Apr-2018 16:01:30	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\20180404-12978.b\XLCS1633.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 04-Apr-2018 16:01:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-005
Misc. Info.: LCSD
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:42:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.8	101.55
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	48.6	97.19
$ 62 Toluene-d8 (Surr)	50.0	50.6	101.24
$ 86 4-Bromofluorobenzene (Surr)	50.0	52.0	104.07

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2007MS MS | Lab Sample ID: 280-107941-1 MS

Matrix: Water | Lab File ID: XSMP1639.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 18:31

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	51.3		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	51.8		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	48.0		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	50.5		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	50.9		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	50.8		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	51.5		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	53.1		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	48.3		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	50.6		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	47.1		10	2.0	1.2
106-93-4	1,2-Dibromoethane	51.3		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	52.9		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	50.3		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	50.2		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	51.4		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	52.0		20	5.0	0.39
95-49-8	2-Chlorotoluene	50.1		5.0	2.0	0.34
591-78-6	2-Hexanone	50.9		20	2.0	0.59
106-43-4	4-Chlorotoluene	50.6		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	51.3		20	2.0	0.33
67-64-1	Acetone	51.0		20	10	6.7
71-43-2	Benzene	49.4		5.0	1.0	0.25
108-86-1	Bromobenzene	49.5		5.0	2.0	0.33
74-97-5	Bromochloromethane	53.0		5.0	2.0	0.55
75-27-4	Bromodichloromethane	52.1		5.0	2.0	0.25
75-25-2	Bromoform	50.7		5.0	1.0	0.37
74-83-9	Bromomethane	48.3		10	2.0	0.40
75-15-0	Carbon disulfide	52.1		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	51.5		5.0	1.0	0.36
108-90-7	Chlorobenzene	50.9		5.0	1.0	0.38
75-00-3	Chloroethane	46.6		10	1.0	0.38
67-66-3	Chloroform	50.7		5.0	1.0	0.15
74-87-3	Chloromethane	46.2		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	51.7		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2007MS MS | Lab Sample ID: 280-107941-1 MS

Matrix: Water | Lab File ID: XSMP1639.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 18:31

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	52.9		5.0	1.0	0.34
124-48-1	Dibromochloromethane	52.7		5.0	1.0	0.33
74-95-3	Dibromomethane	52.4		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	51.7		10	2.0	0.45
100-41-4	Ethylbenzene	48.7		5.0	1.0	0.30
98-82-8	Isopropylbenzene	51.2		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	50.4		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	50.7		5.0	2.0	0.40
75-09-2	Methylene Chloride	51.3		7.5	5.0	1.7
91-20-3	Naphthalene	51.8		5.0	2.0	0.85
104-51-8	n-Butylbenzene	51.2		5.0	2.0	0.23
103-65-1	N-Propylbenzene	50.7		5.0	2.0	0.30
95-47-6	o-Xylene	50.1		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	50.6		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	50.0		5.0	2.0	0.31
100-42-5	Styrene	51.7		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	49.7		5.0	2.0	0.31
127-18-4	Tetrachloroethene	49.6		5.0	1.0	0.28
108-88-3	Toluene	50.1		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	50.5		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	52.8		5.0	1.0	0.35
79-01-6	Trichloroethene	50.3		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	49.0		5.0	2.0	0.22
75-01-4	Vinyl chloride	45.7		5.0	1.0	0.43
1330-20-7	Xylenes (total)	100		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)	99		85-114
1868-53-7	Dibromofluoromethane (Surr)	101		80-119
2037-26-5	Toluene-d8 (Surr)	95		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1639.D
Lims ID: 280-107941-B-1 MS
Client ID: 6MW2007MS
Sample Type: MS
Inject. Date: 04-Apr-2018 18:31:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-011
Misc. Info.: 280-107941-B-1 MS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:46:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.889	1.877	0.012	99	614947	50.0	51.7	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	98	256243	50.0	52.4	
3 Chloromethane	50	2.102	2.090	0.012	98	612707	50.0	46.2	
4 Vinyl chloride	62	2.197	2.197	0.000	98	643639	50.0	45.7	
121 Butadiene	39	2.220	2.209	0.011	79	321778	50.0	46.7	
5 Bromomethane	94	2.575	2.576	-0.001	90	292267	50.0	48.3	
6 Chloroethane	64	2.741	2.741	0.000	98	220613	50.0	46.6	
7 Trichlorofluoromethane	101	2.907	2.907	0.000	98	642312	50.0	49.0	
122 Dichlorofluoromethane	67	3.013	3.001	0.012	96	649065	50.0	47.2	
8 Ethyl ether	74	3.345	3.345	0.000	87	232993	50.0	51.9	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	94	495450	50.0	50.8	
11 Ethanol	45	3.605	3.605	0.000	24	78721	2000.0	1925.8	
10 Carbon disulfide	76	3.605	3.605	0.000	98	1729605	50.0	52.1	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	95	351529	50.0	50.2	
13 Iodomethane	142	3.782	3.782	0.000	99	661285	50.0	51.4	
14 Acrolein	56	4.137	4.126	0.011	100	169836	250.0	256.2	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	93	424751	50.0	50.9	
16 Isopropyl alcohol	45	4.492	4.492	0.000	98	112429	500.0	516.4	
17 Methylene Chloride	84	4.516	4.516	0.000	92	460929	50.0	51.3	
18 Acetone	43	4.634	4.634	0.000	96	48756	50.0	51.0	
19 trans-1,2-Dichloroethene	96	4.788	4.776	0.012	97	534385	50.0	50.5	
20 Methyl acetate	74	4.859	4.859	0.000	96	72255	250.0	276.4	
21 Hexane	86	4.930	4.930	0.000	80	183845	50.0	51.9	
22 Methyl tert-butyl ether	73	5.001	5.001	0.000	89	815868	50.0	50.7	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	98	198191	500.0	503.6	
24 Acetonitrile	41	5.368	5.368	0.000	99	214331	500.0	521.9	
25 Isopropyl ether	45	5.628	5.628	0.000	94	1313667	50.0	51.5	
27 2-Chloro-1,3-butadiene	53	5.711	5.711	0.000	90	869750	50.0	51.0	
28 1,1-Dichloroethane	63	5.747	5.747	0.000	96	971381	50.0	50.9	
S 26 1,2-Dichloroethene, Total	96				0			102.2	
29 Acrylonitrile	53	5.853	5.853	0.000	100	827962	500.0	519.7	

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	6.173	6.173	0.000	98	1284840	50.0	50.8	
31 Vinyl acetate	43	6.185	6.185	-0.001	97	591309	50.0	53.3	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	81	549143	50.0	51.7	
33 2,2-Dichloropropane	77	6.681	6.682	-0.001	87	613572	50.0	51.4	
34 Cyclohexane	84	6.788	6.788	0.000	86	940465	50.0	51.3	
35 Chlorobromomethane	128	6.812	6.812	0.000	98	173775	50.0	53.0	
36 Chloroform	83	6.942	6.942	0.000	92	830998	50.0	50.7	
37 Carbon tetrachloride	117	7.084	7.084	0.000	97	637102	50.0	51.5	
39 Ethyl acetate	45	7.167	7.155	0.012	99	56167	100.0	111.2	
38 Tetrahydrofuran	71	7.143	7.155	-0.012	86	50414	100.0	105.8	
$ 41 Dibromofluoromethane (Surr	113	7.190	7.179	0.012	93	353745	50.0	50.4	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	98	791113	50.0	51.8	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	99	768743	50.0	51.5	
43 2-Butanone (MEK)	43	7.380	7.380	0.000	98	80941	50.0	52.0	
124 Isooctane	57	7.522	7.522	0.000	93	2552359	50.0	50.0	
117 n-Heptane	43	7.687	7.687	0.000	68	872142	50.0	50.8	
44 Benzene	78	7.687	7.687	0.000	96	2105467	50.0	49.4	
45 Propionitrile	54	7.758	7.758	0.000	96	305802	500.0	510.2	
46 Methacrylonitrile	41	7.782	7.782	0.000	84	1105504	500.0	502.8	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	364606	50.0	50.8	
48 Tert-amyl methyl ether	73	7.888	7.888	0.000	98	954525	50.0	51.1	
49 1,2-Dichloroethane	62	7.959	7.959	0.000	98	475036	50.0	50.1	
50 Isobutyl alcohol	42	8.090	8.090	0.000	95	117472	1250.0	1164.9	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1823913	50.0	50.0	
52 Methylcyclohexane	55	8.421	8.421	0.000	87	917677	50.0	50.4	
125 1,4-Difluorobenzene	114		8.427					ND	
53 Trichloroethene	95	8.456	8.456	0.000	96	535328	50.0	50.3	
A 126 C6-C12	1	8.915	(3.966-13.864)		0	163314029		NC	
54 n-Butanol	56	8.977	8.977	0.000	81	155503	1250.0	1252.5	
55 Dibromomethane	93	8.989	8.989	0.000	96	188064	50.0	52.4	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	96	507544	50.0	52.9	
123 Ethyl acrylate	55	9.202	9.202	0.000	98	335540	50.0	54.2	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	550083	50.0	52.1	
58 Methyl methacrylate	69	9.450	9.450	0.000	87	364838	100.0	106.5	
59 1,4-Dioxane	88	9.486	9.486	0.000	81	44020	1000.0	1071.3	a
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63		9.959				ND	ND	
61 cis-1,3-Dichloropropene	75	10.007	10.007	0.000	98	647575	50.0	52.9	
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1682468	50.0	47.7	
63 Toluene	92	10.302	10.302	0.000	99	1322993	50.0	50.1	
64 2-Nitropropane	43	10.598	10.598	0.000	96	82614	100.0	93.7	
65 Tetrachloroethene	164	10.752	10.752	0.000	96	403173	50.0	49.6	
66 4-Methyl-2-pentanone (MIBK	43	10.788	10.788	0.000	89	173400	50.0	51.3	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	89	517208	50.0	52.8	
68 1,1,2-Trichloroethane	83	11.001	11.001	-0.001	89	239455	50.0	50.5	
69 Ethyl methacrylate	69	11.024	11.024	0.000	86	364697	50.0	53.9	
70 Chlorodibromomethane	129	11.190	11.190	0.000	90	296334	50.0	52.7	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	86	527273	50.0	50.2	
72 Ethylene Dibromide	107	11.426	11.427	-0.001	98	240711	50.0	51.3	
S 73 1,3-Dichloropropene, Total	75				0			105.7	
118 n-Butyl acetate	43	11.628	11.628	0.000	93	310587	50.0	51.1	
74 2-Hexanone	43	11.710	11.711	-0.001	87	121243	50.0	50.9	

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	11.971	11.971	0.000	88	1107357	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	0.000	85	933934	50.0	50.2	
77 Chlorobenzene	112	11.994	11.995	0.000	95	1270885	50.0	50.9	
78 Ethylbenzene	91	12.030	12.030	0.000	96	2507358	50.0	48.7	
79 1,1,1,2-Tetrachloroethane	131	12.065	12.066	-0.001	93	371564	50.0	51.3	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	99	945102	50.0	50.4	
82 o-Xylene	106	12.598	12.598	0.000	97	862384	50.0	50.1	
83 Styrene	104	12.657	12.657	0.000	94	1329609	50.0	51.7	
84 Bromoform	173	12.669	12.669	0.000	94	137646	50.0	50.7	
85 Isopropylbenzene	105	12.906	12.906	0.000	96	2352807	50.0	51.2	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	83	559218	50.0	49.3	
87 Bromobenzene	156	13.261	13.261	0.000	95	425338	50.0	49.5	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	2803928	50.0	50.7	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	94	277762	50.0	48.0	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	1587844	50.0	50.1	
91 1,3,5-Trimethylbenzene	105	13.474	13.474	0.000	94	1809924	50.0	50.3	
92 1,2,3-Trichloropropane	110	13.485	13.485	0.000	83	79072	50.0	48.3	
93 trans-1,4-Dichloro-2-buten	53	13.533	13.521	0.012	87	77540	50.0	48.5	
94 Cyclohexanone	55	13.533	13.533	0.000	67	54997	500.0	442.8	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	1599285	50.0	50.6	
96 tert-Butylbenzene	119	13.769	13.769	0.000	92	1545347	50.0	49.7	
81 Pentachloroethane	167		13.776					ND	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	97	1800833	50.0	50.6	
98 sec-Butylbenzene	105	13.923	13.923	0.000	94	2460375	50.0	50.0	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	96	1959095	50.0	50.6	
100 1,3-Dichlorobenzene	146	14.113	14.113	0.000	97	860831	50.0	49.9	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	96	494457	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	93	817995	50.0	48.6	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	98	1626032	50.0	48.9	
103 n-Butylbenzene	134	14.420	14.420	0.000	97	512440	50.0	51.2	
120 Benzyl chloride	126	14.420	14.420	0.000	89	94216	50.0	56.2	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	96	692198	50.0	48.3	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	84	31896	50.0	47.1	
106 n-Nonyl Aldehyde	57	15.272	15.272	0.000	60	177234	50.0	49.3	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	97	589106	50.0	49.0	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	97	313713	50.0	48.0	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	94	444534	50.0	53.7	
110 Naphthalene	128	16.100	16.101	-0.001	97	680917	50.0	51.8	
111 1,2,3-Trichlorobenzene	180	16.254	16.254	0.000	94	342667	50.0	53.1	
S 112 Xylenes, Total	106				0			100.4	
S 113 Trihalomethanes, Total	1				0			206.1	
127 2-Methylpentane	43	4.126	4.061	0.065	28	3587		NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

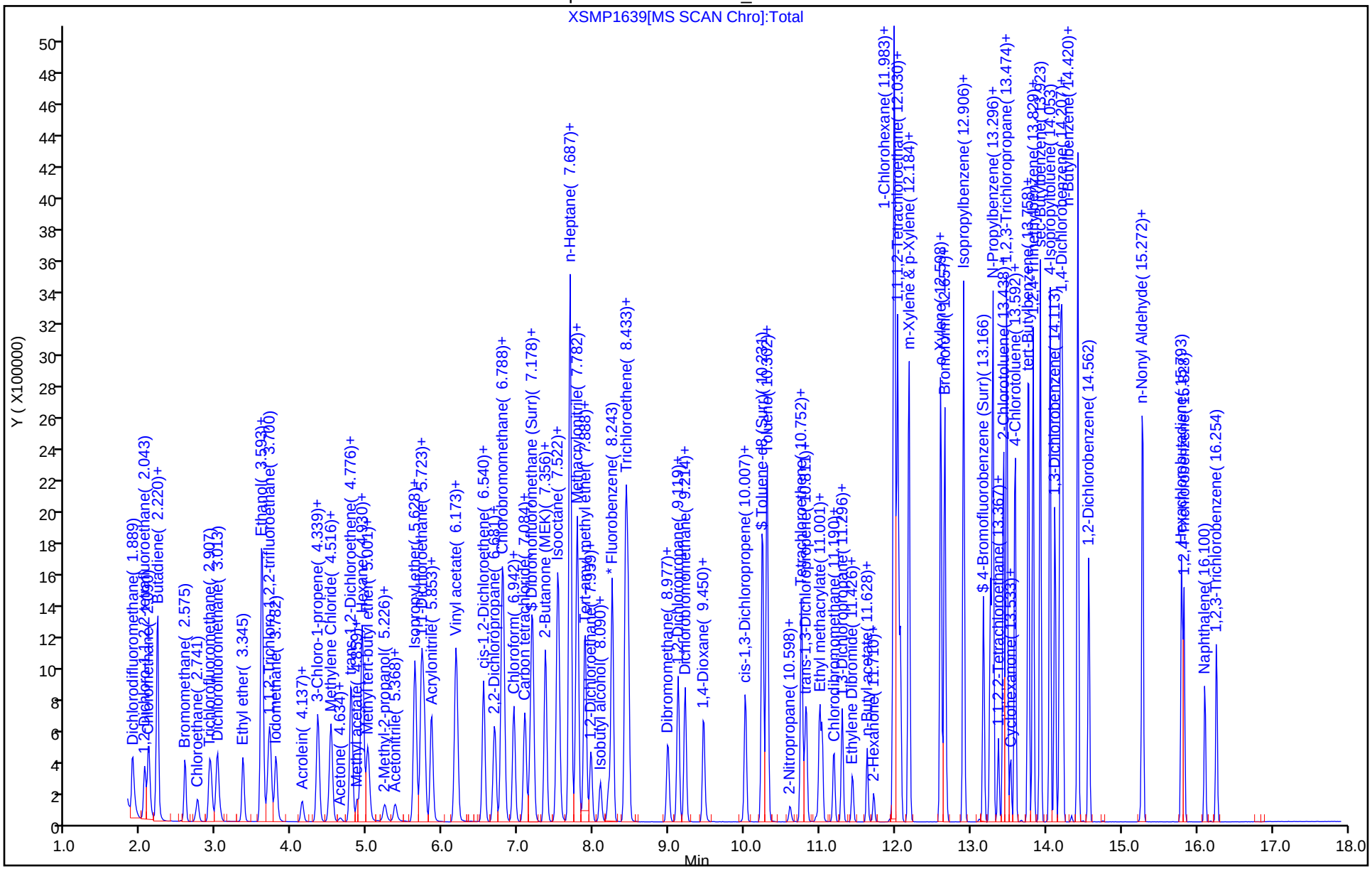
8260 NewWkMix_00269	Amount Added:	10.00	Units: uL	
I.S. Working_00163	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00085	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:44:10 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1639.D

Injection Date:	04-Apr-2018 18:31:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-107941-B-1 MS			Worklist Smp#:	11
Client ID:	6MW2007MS				
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\20180404-12978.b\XSMP1639.D
Lims ID: 280-107941-B-1 MS
Client ID: 6MW2007MS
Sample Type: MS
Inject. Date: 04-Apr-2018 18:31:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-011
Misc. Info.: 280-107941-B-1 MS
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:46:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	50.4	100.71
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	50.8	101.65
$ 62 Toluene-d8 (Surr)	50.0	47.7	95.46
$ 86 4-Bromofluorobenzene (Surr)	50.0	49.3	98.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2007MSD MSD | Lab Sample ID: 280-107941-1 MSD

Matrix: Water | Lab File ID: XSMP1640.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 18:56

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
630-20-6	1,1,1,2-Tetrachloroethane	49.3		5.0	2.0	0.25
71-55-6	1,1,1-Trichloroethane	50.1		5.0	1.0	0.29
79-34-5	1,1,2,2-Tetrachloroethane	47.0		5.0	2.0	0.43
79-00-5	1,1,2-Trichloroethane	48.7		5.0	1.0	0.57
75-34-3	1,1-Dichloroethane	49.7		5.0	1.0	0.39
75-35-4	1,1-Dichloroethene	49.9		5.0	1.0	0.37
563-58-6	1,1-Dichloropropene	50.5		5.0	1.0	0.30
87-61-6	1,2,3-Trichlorobenzene	54.9		5.0	2.0	0.65
96-18-4	1,2,3-Trichloropropane	46.5		5.0	1.0	0.56
95-63-6	1,2,4-Trimethylbenzene	49.6		5.0	2.0	0.40
96-12-8	1,2-Dibromo-3-Chloropropane	53.7		10	2.0	1.2
106-93-4	1,2-Dibromoethane	49.4		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	50.6		5.0	1.0	0.32
108-67-8	1,3,5-Trimethylbenzene	49.6		5.0	2.0	0.28
142-28-9	1,3-Dichloropropane	47.5		5.0	1.0	0.24
594-20-7	2,2-Dichloropropane	52.2		5.0	2.0	0.54
78-93-3	2-Butanone (MEK)	49.0		20	5.0	0.39
95-49-8	2-Chlorotoluene	48.9		5.0	2.0	0.34
591-78-6	2-Hexanone	49.8		20	2.0	0.59
106-43-4	4-Chlorotoluene	49.6		5.0	2.0	0.31
108-10-1	4-Methyl-2-pentanone (MIBK)	49.1		20	2.0	0.33
67-64-1	Acetone	47.5		20	10	6.7
71-43-2	Benzene	48.4		5.0	1.0	0.25
108-86-1	Bromobenzene	49.1		5.0	2.0	0.33
74-97-5	Bromochloromethane	51.4		5.0	2.0	0.55
75-27-4	Bromodichloromethane	50.8		5.0	2.0	0.25
75-25-2	Bromoform	51.3		5.0	1.0	0.37
74-83-9	Bromomethane	47.2		10	2.0	0.40
75-15-0	Carbon disulfide	51.4		5.0	1.0	0.37
56-23-5	Carbon tetrachloride	50.0		5.0	1.0	0.36
108-90-7	Chlorobenzene	49.5		5.0	1.0	0.38
75-00-3	Chloroethane	45.5		10	1.0	0.38
67-66-3	Chloroform	49.4		5.0	1.0	0.15
74-87-3	Chloromethane	46.1		10	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	50.6		5.0	1.0	0.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica St. Louis | Job No.: 280-107941-1

SDG No.:

Client Sample ID: 6MW2007MSD MSD | Lab Sample ID: 280-107941-1 MSD

Matrix: Water | Lab File ID: XSMP1640.D

Analysis Method: 8260C DOD | Date Collected: 03/28/2018 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2018 18:56

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 358977 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
10061-01-5	cis-1,3-Dichloropropene	51.6		5.0	1.0	0.34
124-48-1	Dibromochloromethane	50.7		5.0	1.0	0.33
74-95-3	Dibromomethane	50.9		5.0	2.0	0.41
75-71-8	Dichlorodifluoromethane	51.6		10	2.0	0.45
100-41-4	Ethylbenzene	46.8		5.0	1.0	0.30
98-82-8	Isopropylbenzene	50.5		5.0	2.0	0.26
179601-23-1	m,p-Xylenes	48.6		5.0	1.0	0.57
1634-04-4	Methyl tert-butyl ether	51.1		5.0	2.0	0.40
75-09-2	Methylene Chloride	50.1		7.5	5.0	1.7
91-20-3	Naphthalene	53.3		5.0	2.0	0.85
104-51-8	n-Butylbenzene	49.4		5.0	2.0	0.23
103-65-1	N-Propylbenzene	50.2		5.0	2.0	0.30
95-47-6	o-Xylene	48.3		5.0	1.0	0.32
99-87-6	p-Isopropyltoluene	49.4		5.0	2.0	0.32
135-98-8	sec-Butylbenzene	49.1		5.0	2.0	0.31
100-42-5	Styrene	50.4		5.0	1.0	0.35
98-06-6	tert-Butylbenzene	49.1		5.0	2.0	0.31
127-18-4	Tetrachloroethene	48.6		5.0	1.0	0.28
108-88-3	Toluene	48.8		5.0	1.0	1.0
156-60-5	trans-1,2-Dichloroethene	49.6		5.0	1.0	0.18
10061-02-6	trans-1,3-Dichloropropene	51.2		5.0	1.0	0.35
79-01-6	Trichloroethene	48.8		5.0	1.0	0.29
75-69-4	Trichlorofluoromethane	47.1		5.0	2.0	0.22
75-01-4	Vinyl chloride	45.3		5.0	1.0	0.43
1330-20-7	Xylenes (total)	97.0		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)	99		85-114
1868-53-7	Dibromofluoromethane (Surr)	98		80-119
2037-26-5	Toluene-d8 (Surr)	95		89-112

TestAmerica St. Louis
Target Compound Quantitation Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1640.D
Lims ID: 280-107941-B-1 MSD
Client ID: 6MW2007MSD
Sample Type: MSD
Inject. Date: 04-Apr-2018 18:56:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-012
Misc. Info.: 280-107941-B-1 MSD
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:46:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.877	1.877	0.000	99	604907	50.0	51.6	
2 1,2-Dichloro-1,1,2,2-tetra	135	2.043	2.043	0.000	99	257204	50.0	53.4	
3 Chloromethane	50	2.090	2.090	0.000	98	602696	50.0	46.1	
4 Vinyl chloride	62	2.197	2.197	0.000	98	629260	50.0	45.3	
121 Butadiene	39	2.209	2.209	0.000	79	312460	50.0	46.0	
5 Bromomethane	94	2.576	2.576	0.000	90	281665	50.0	47.2	
6 Chloroethane	64	2.741	2.741	0.000	98	212731	50.0	45.5	
7 Trichlorofluoromethane	101	2.907	2.907	0.000	98	609223	50.0	47.1	
122 Dichlorofluoromethane	67	3.002	3.001	0.001	96	641398	50.0	47.3	
8 Ethyl ether	74	3.345	3.345	0.000	87	222280	50.0	50.2	
9 1,1-Dichloroethene	96	3.593	3.593	0.000	94	479599	50.0	49.9	
11 Ethanol	45	3.605	3.605	0.000	24	77078	2000.0	1912.3	
10 Carbon disulfide	76	3.605	3.605	0.000	98	1679607	50.0	51.4	
12 1,1,2-Trichloro-1,2,2-trif	151	3.700	3.700	0.000	95	345432	50.0	50.0	
13 Iodomethane	142	3.782	3.782	0.000	99	638894	50.0	50.4	
14 Acrolein	56	4.137	4.126	0.011	99	161176	250.0	246.6	
15 3-Chloro-1-propene	39	4.339	4.339	0.000	93	404367	50.0	49.1	
16 Isopropyl alcohol	45	4.492	4.492	0.000	98	111349	500.0	518.7	
17 Methylene Chloride	84	4.516	4.516	0.000	91	444116	50.0	50.1	
18 Acetone	43	4.634	4.634	0.000	95	44798	50.0	47.5	
19 trans-1,2-Dichloroethene	96	4.788	4.776	0.012	97	517719	50.0	49.6	
20 Methyl acetate	74	4.871	4.859	0.012	96	66060	250.0	256.3	
21 Hexane	86	4.930	4.930	0.000	80	179019	50.0	51.2	
22 Methyl tert-butyl ether	73	5.001	5.001	0.000	90	810133	50.0	51.1	
23 2-Methyl-2-propanol	59	5.226	5.226	0.000	99	189816	500.0	489.6	
24 Acetonitrile	41	5.368	5.368	0.000	99	201863	500.0	498.5	
25 Isopropyl ether	45	5.628	5.628	0.000	94	1257544	50.0	50.0	
27 2-Chloro-1,3-butadiene	53	5.711	5.711	0.000	90	825494	50.0	49.1	
28 1,1-Dichloroethane	63	5.747	5.747	0.000	96	934323	50.0	49.7	
S 26 1,2-Dichloroethene, Total	96				0			100.2	
29 Acrylonitrile	53	5.853	5.853	0.000	100	787668	500.0	501.5	

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	6.173	6.173	0.000	98	1268485	50.0	50.9	
31 Vinyl acetate	43	6.185	6.185	0.000	97	567043	50.0	51.9	
32 cis-1,2-Dichloroethene	96	6.540	6.540	0.000	81	529992	50.0	50.6	
33 2,2-Dichloropropane	77	6.682	6.682	0.000	87	614052	50.0	52.2	
34 Cyclohexane	84	6.788	6.788	0.000	86	899784	50.0	49.8	
35 Chlorobromomethane	128	6.812	6.812	0.000	97	166330	50.0	51.4	
36 Chloroform	83	6.942	6.942	0.000	92	798981	50.0	49.4	
37 Carbon tetrachloride	117	7.084	7.084	0.000	96	609979	50.0	50.0	
39 Ethyl acetate	45	7.167	7.155	0.012	98	52262	100.0	105.0	
38 Tetrahydrofuran	71	7.143	7.155	-0.012	88	48085	100.0	102.3	
$ 41 Dibromofluoromethane (Surr	113	7.179	7.179	0.001	92	341018	50.0	49.2	
40 1,1,1-Trichloroethane	97	7.190	7.190	0.000	98	753732	50.0	50.1	
42 1,1-Dichloropropene	75	7.356	7.356	0.000	99	743854	50.0	50.5	
43 2-Butanone (MEK)	43	7.380	7.380	0.000	99	75148	50.0	49.0	
124 Isooctane	57	7.522	7.522	0.000	93	2490155	50.0	49.5	
117 n-Heptane	43	7.687	7.687	0.000	68	830510	50.0	49.1	
44 Benzene	78	7.687	7.687	0.000	96	2034019	50.0	48.4	
45 Propionitrile	54	7.758	7.758	0.000	95	290577	500.0	491.7	
46 Methacrylonitrile	41	7.782	7.782	0.000	84	1037794	500.0	478.7	
$ 47 1,2-Dichloroethane-d4 (Sur	65	7.877	7.877	0.000	98	351468	50.0	49.7	
48 Tert-amyl methyl ether	73	7.889	7.888	0.000	98	928374	50.0	50.4	
49 1,2-Dichloroethane	62	7.960	7.959	0.001	98	454469	50.0	48.6	
50 Isobutyl alcohol	42	8.090	8.090	0.000	97	107259	1250.0	1078.7	
* 51 Fluorobenzene	96	8.243	8.243	0.000	99	1798399	50.0	50.0	
52 Methylcyclohexane	55	8.421	8.421	0.000	88	880234	50.0	49.1	
125 1,4-Difluorobenzene	114		8.427					ND	
53 Trichloroethene	95	8.456	8.456	0.000	97	512337	50.0	48.8	
A 126 C6-C12	1	8.915	(3.966-13.864)		0	155721338		NC	
54 n-Butanol	56	8.977	8.977	0.000	81	144129	1250.0	1180.7	
55 Dibromomethane	93	8.989	8.989	0.000	97	180085	50.0	50.9	
56 1,2-Dichloropropane	63	9.119	9.119	0.000	96	478912	50.0	50.6	
123 Ethyl acrylate	55	9.202	9.202	0.000	98	314486	50.0	51.5	
57 Dichlorobromomethane	83	9.214	9.214	0.000	99	529029	50.0	50.8	
58 Methyl methacrylate	69	9.450	9.450	0.000	87	344031	100.0	101.9	
59 1,4-Dioxane	88	9.486	9.486	0.000	73	40437	1000.0	998.1	a
128 2-Pentanone	43		9.634					ND	
60 2-Chloroethyl vinyl ether	63		9.959				ND	ND	
61 cis-1,3-Dichloropropene	75	10.007	10.007	0.000	98	622425	50.0	51.6	
$ 62 Toluene-d8 (Surr)	98	10.231	10.231	0.000	93	1647911	50.0	47.4	
63 Toluene	92	10.302	10.302	0.000	99	1271075	50.0	48.8	
64 2-Nitropropane	43	10.598	10.598	0.000	97	77075	100.0	89.2	
65 Tetrachloroethene	164	10.752	10.752	0.000	96	389288	50.0	48.6	
66 4-Methyl-2-pentanone (MIBK	43	10.788	10.788	0.000	89	163717	50.0	49.1	
67 trans-1,3-Dichloropropene	75	10.823	10.823	0.000	89	494403	50.0	51.2	
68 1,1,2-Trichloroethane	83	11.001	11.001	0.000	89	227410	50.0	48.7	
69 Ethyl methacrylate	69	11.024	11.024	0.000	86	342633	50.0	51.3	
70 Chlorodibromomethane	129	11.190	11.190	0.000	90	281051	50.0	50.7	
71 1,3-Dichloropropane	76	11.296	11.296	0.000	86	491706	50.0	47.5	
72 Ethylene Dibromide	107	11.427	11.427	0.000	99	228580	50.0	49.4	
S 73 1,3-Dichloropropene, Total	75				0			102.7	
118 n-Butyl acetate	43	11.628	11.628	0.000	93	299207	50.0	49.9	
74 2-Hexanone	43	11.711	11.711	0.000	88	117009	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
* 76 Chlorobenzene-d5	117	11.971	11.971	0.000	88	1092014	50.0	50.0	
75 1-Chlorohexane	91	11.983	11.983	0.000	89	899831	50.0	49.1	
77 Chlorobenzene	112	11.995	11.995	0.001	95	1219087	50.0	49.5	
78 Ethylbenzene	91	12.030	12.030	0.000	96	2376414	50.0	46.8	
79 1,1,1,2-Tetrachloroethane	131	12.066	12.066	0.000	94	351958	50.0	49.3	
80 m-Xylene & p-Xylene	106	12.184	12.184	0.000	99	899586	50.0	48.6	
82 o-Xylene	106	12.598	12.598	0.000	97	821079	50.0	48.3	
83 Styrene	104	12.657	12.657	0.000	94	1277815	50.0	50.4	
84 Bromoform	173	12.669	12.669	0.000	96	135381	50.0	51.3	
85 Isopropylbenzene	105	12.906	12.906	0.000	96	2253640	50.0	50.5	
$ 86 4-Bromofluorobenzene (Surr	95	13.166	13.166	0.000	83	546766	50.0	49.6	
87 Bromobenzene	156	13.261	13.261	0.000	95	409595	50.0	49.1	
88 N-Propylbenzene	91	13.296	13.296	0.000	98	2693183	50.0	50.2	
89 1,1,2,2-Tetrachloroethane	83	13.367	13.367	0.000	93	263758	50.0	47.0	
90 2-Chlorotoluene	91	13.438	13.438	0.000	96	1505250	50.0	48.9	
91 1,3,5-Trimethylbenzene	105	13.474	13.474	0.000	94	1734060	50.0	49.6	
92 1,2,3-Trichloropropane	110	13.485	13.485	0.000	79	73871	50.0	46.5	
93 trans-1,4-Dichloro-2-buten	53	13.521	13.521	0.000	88	74446	50.0	48.0	
94 Cyclohexanone	55	13.533	13.533	0.000	70	57551	500.0	476.6	
95 4-Chlorotoluene	91	13.592	13.592	0.000	98	1521118	50.0	49.6	
96 tert-Butylbenzene	119	13.769	13.769	0.000	92	1481358	50.0	49.1	
81 Pentachloroethane	167		13.776					ND	
97 1,2,4-Trimethylbenzene	105	13.829	13.829	0.000	97	1714536	50.0	49.6	
98 sec-Butylbenzene	105	13.923	13.923	0.000	94	2347499	50.0	49.1	
99 4-Isopropyltoluene	119	14.053	14.053	0.000	96	1855858	50.0	49.4	
100 1,3-Dichlorobenzene	146	14.113	14.113	0.000	97	806416	50.0	48.1	
* 101 1,4-Dichlorobenzene-d4	152	14.184	14.184	0.000	96	480115	50.0	50.0	
102 1,4-Dichlorobenzene	146	14.195	14.195	0.000	94	797552	50.0	48.8	
119 1,2,3-Trimethylbenzene	105	14.219	14.219	0.000	98	1564767	50.0	48.5	
103 n-Butylbenzene	134	14.420	14.420	0.000	97	480332	50.0	49.4	
120 Benzyl chloride	126	14.420	14.420	0.000	89	89608	50.0	55.1	
104 1,2-Dichlorobenzene	146	14.562	14.562	0.000	96	674679	50.0	48.5	
105 1,2-Dibromo-3-Chloropropan	157	15.260	15.260	0.000	85	35283	50.0	53.7	
106 n-Nonyl Aldehyde	57	15.272	15.272	0.000	63	191270	50.0	54.7	
107 1,3,5-Trichlorobenzene	180	15.284	15.284	0.000	96	572517	50.0	49.0	
108 Hexachlorobutadiene	225	15.793	15.793	0.000	98	309440	50.0	48.8	
109 1,2,4-Trichlorobenzene	180	15.828	15.828	0.000	94	428664	50.0	53.3	
110 Naphthalene	128	16.101	16.101	0.000	97	680710	50.0	53.3	
111 1,2,3-Trichlorobenzene	180	16.266	16.254	0.012	94	343804	50.0	54.9	
S 112 Xylenes, Total	106				0			97.0	
S 113 Trihalomethanes, Total	1				0			202.2	
127 2-Methylpentane	43	4.137	4.061	0.076	30	3801		NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

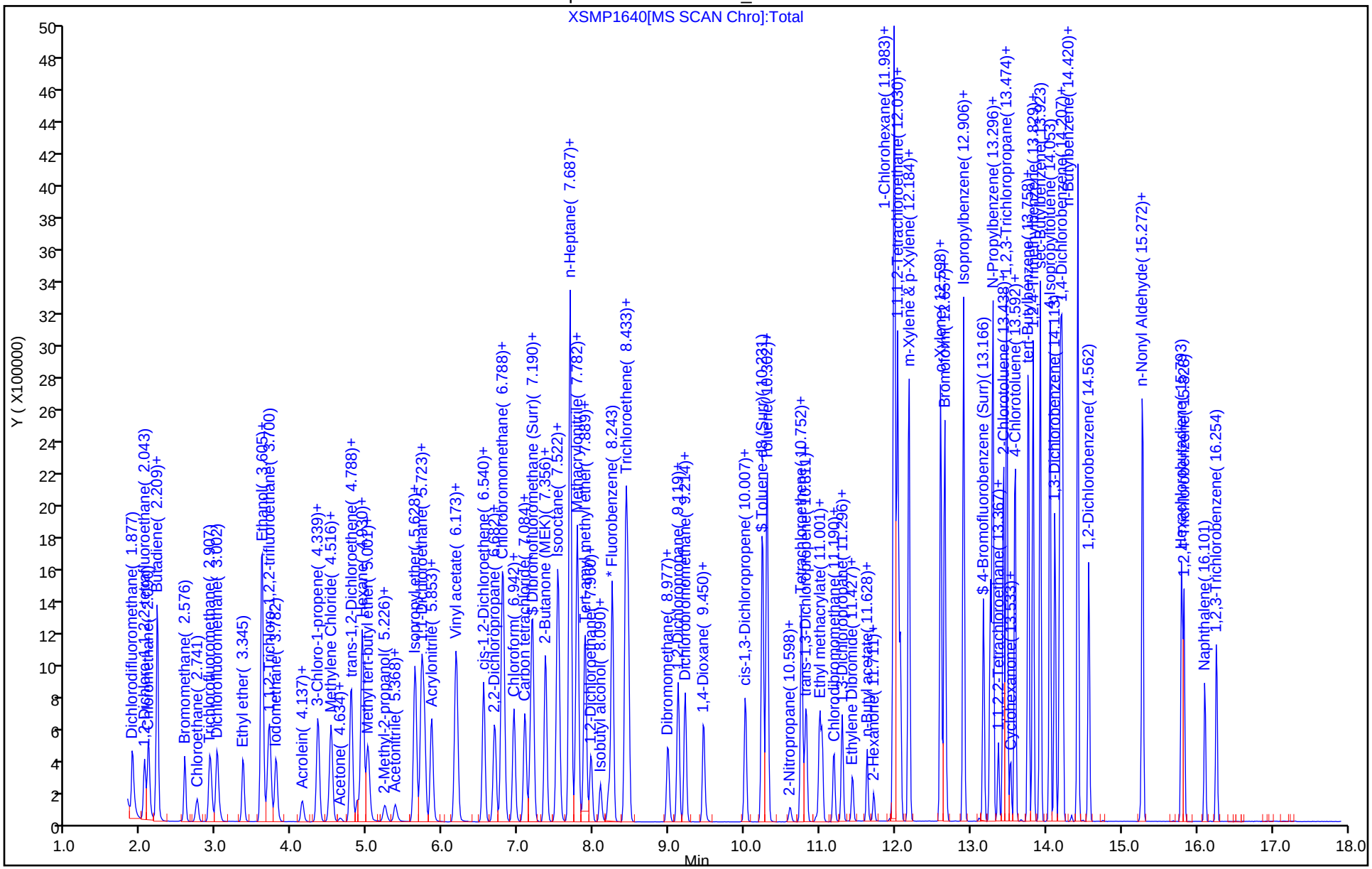
8260 NewWkMix_00269	Amount Added:	10.00	Units: uL	
I.S. Working_00163	Amount Added:	10.00	Units: uL	Run Reagent
8260 Surr 25_00085	Amount Added:	10.00	Units: uL	Run Reagent

Report Date: 05-Apr-2018 16:44:11 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica St. Louis

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1640.D

Injection Date:	04-Apr-2018 18:56:30	Instrument ID:	VMSX	Operator ID:	JDH
Lims ID:	280-107941-B-1 MSD			Worklist Smp#:	12
Client ID:	6MW2007MSD				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	5mL-8260-MSX	Limit Group:	MSV-8260_DoD		



TestAmerica St. Louis
Recovery Report

Data File: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\XSMP1640.D
Lims ID: 280-107941-B-1 MSD
Client ID: 6MW2007MSD
Sample Type: MSD
Inject. Date: 04-Apr-2018 18:56:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 160-0012978-012
Misc. Info.: 280-107941-B-1 MSD
Operator ID: JDH Instrument ID: VMSX

Method: \\ChromNA\StLouis\ChromData\VMSX\20180404-12978.b\5mL-8260-MSX.m
Limit Group: MSV-8260_DoD
Last Update: 05-Apr-2018 16:43:56 Calib Date: 04-Apr-2018 00:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\StLouis\ChromData\VMSX\20180403-12973.b\XICL1625.D

Column 1 : Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: hannj Date: 04-Apr-2018 19:46:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 41 Dibromofluoromethane (Surr)	50.0	49.2	98.46
$ 47 1,2-Dichloroethane-d4 (Surr)	50.0	49.7	99.38
$ 62 Toluene-d8 (Surr)	50.0	47.4	94.81
$ 86 4-Bromofluorobenzene (Surr)	50.0	49.6	99.20

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Instrument ID: VMSX Start Date: 04/03/2018 21:04

Analysis Batch Number: 358742 End Date: 04/04/2018 02:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-358742/1		04/03/2018 21:04	1	XBFB1616.D	RTXVMS30 0.25(mm)
IC 160-358742/3		04/03/2018 21:52	1	XICL1618.D	RTXVMS30 0.25(mm)
IC 160-358742/4		04/03/2018 22:17	1	XICL1619.D	RTXVMS30 0.25(mm)
IC 160-358742/5		04/03/2018 22:42	1	XICL1620.D	RTXVMS30 0.25(mm)
IC 160-358742/6		04/03/2018 23:07	1	XICL1621.D	RTXVMS30 0.25(mm)
IC 160-358742/7		04/03/2018 23:32	1	XICL1622.D	RTXVMS30 0.25(mm)
ICIS 160-358742/8		04/03/2018 23:58	1	XICL1623.D	RTXVMS30 0.25(mm)
IC 160-358742/9		04/04/2018 00:23	1	XICL1624.D	RTXVMS30 0.25(mm)
IC 160-358742/10		04/04/2018 00:48	1	XICL1625.D	RTXVMS30 0.25(mm)
ICV 160-358742/13		04/04/2018 02:04	1	XICV1628.D	RTXVMS30 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Instrument ID: VMSX Start Date: 04/04/2018 14:37

Analysis Batch Number: 358977 End Date: 04/04/2018 22:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 160-358977/2		04/04/2018 14:37	1	XBFB1630.D	RTXVMS30 0.25(mm)
CCV 160-358977/3		04/04/2018 14:59	1	XCCV1631.D	RTXVMS30 0.25(mm)
LCS 160-358977/4		04/04/2018 15:35	1	XLCS1632.D	RTXVMS30 0.25(mm)
LCSD 160-358977/5		04/04/2018 16:01	1	XLCS1633.D	RTXVMS30 0.25(mm)
ZZZZZ		04/04/2018 16:26	1		RTXVMS30 0.25(mm)
MB 160-358977/7		04/04/2018 16:51	1	XBLK1635.D	RTXVMS30 0.25(mm)
280-107941-8		04/04/2018 17:16	1	XSMP1636.D	RTXVMS30 0.25(mm)
280-107941-9		04/04/2018 17:41	1	XSMP1637.D	RTXVMS30 0.25(mm)
280-107941-1		04/04/2018 18:06	1	XSMP1638.D	RTXVMS30 0.25(mm)
280-107941-1 MS		04/04/2018 18:31	1	XSMP1639.D	RTXVMS30 0.25(mm)
280-107941-1 MSD		04/04/2018 18:56	1	XSMP1640.D	RTXVMS30 0.25(mm)
280-107941-2		04/04/2018 19:46	1	XSMP1642.D	RTXVMS30 0.25(mm)
280-107941-3		04/04/2018 20:11	1	XSMP1643.D	RTXVMS30 0.25(mm)
280-107941-4		04/04/2018 20:36	1	XSMP1644.D	RTXVMS30 0.25(mm)
280-107941-5		04/04/2018 21:01	1	XSMP1645.D	RTXVMS30 0.25(mm)
280-107941-6		04/04/2018 21:26	1	XSMP1646.D	RTXVMS30 0.25(mm)
280-107941-7		04/04/2018 21:51	1	XSMP1647.D	RTXVMS30 0.25(mm)
CCVC 160-358977/20		04/04/2018 22:16	1	XCCV1648.D	RTXVMS30 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Batch Number: 358742 Batch Start Date: 04/03/18 21:04 Batch Analyst: Hann, John D

Batch Method: 8260C DOD Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260 NewWkMix 00269	8260 Surr 25 00085	8260_Surr 00057	8260NewHiWrk 00244
BFB 160-358742/1		8260C DOD		2 uL	2 uL				
IC 160-358742/3		8260C DOD		5 mL	5 mL	0.2 uL	0.2 uL		
IC 160-358742/4		8260C DOD		5 mL	5 mL	0.5 uL	0.5 uL		
IC 160-358742/5		8260C DOD		5 mL	5 mL	1 uL	1 uL		
IC 160-358742/6		8260C DOD		5 mL	5 mL	2 uL	2 uL		
IC 160-358742/7		8260C DOD		5 mL	5 mL	4 uL	4 uL		
ICIS 160-358742/8		8260C DOD		5 mL	5 mL	10 uL	10 uL		
IC 160-358742/9		8260C DOD		5 mL	5 mL		20 uL		4 uL
IC 160-358742/10		8260C DOD		5 mL	5 mL			0.4 uL	8 uL
ICV 160-358742/13		8260C DOD		5 mL	5 mL		10 uL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	8260NewICVMix 00257	BFB 00081	I.S. Working 00163			
BFB 160-358742/1		8260C DOD			2 uL				
IC 160-358742/3		8260C DOD				10 uL			
IC 160-358742/4		8260C DOD				10 uL			
IC 160-358742/5		8260C DOD				10 uL			
IC 160-358742/6		8260C DOD				10 uL			
IC 160-358742/7		8260C DOD				10 uL			
ICIS 160-358742/8		8260C DOD				10 uL			
IC 160-358742/9		8260C DOD				10 uL			
IC 160-358742/10		8260C DOD				10 uL			
ICV 160-358742/13		8260C DOD		10 uL		10 uL			

Batch Notes	
Vial Lot Number	0119201C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Batch Number: 358742 Batch Start Date: 04/03/18 21:04 Batch Analyst: Hann, John D

Batch Method: 8260C DOD Batch End Date:

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.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Batch Number: 358977 Batch Start Date: 04/04/18 14:37 Batch Analyst: Hann, John D

Batch Method: 8260C DOD Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 NewWkMix 00269	8260 Surr 25 00085	BFB 00081
BFB 160-358977/2		8260C DOD		2 uL	2 uL				2 uL
CCV 160-358977/3		8260C DOD		5 mL	5 mL		10 uL	10 uL	
LCS 160-358977/4		8260C DOD		5 mL	5 mL		10 uL	10 uL	
LCSD 160-358977/5		8260C DOD		5 mL	5 mL		10 uL	10 uL	
MB 160-358977/7		8260C DOD		5 mL	5 mL			10 uL	
280-107941-C-8	TB08	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-107941-B-9	FB04	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-107941-B-1	6MW2007	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-107941-B-1 MS	6MW2007MS	8260C DOD	T	5 mL	5 mL	<2 SU	10 uL	10 uL	
280-107941-B-1 MSD	6MW2007MSD	8260C DOD	T	5 mL	5 mL	<2 SU	10 uL	10 uL	
280-107941-B-2	6MW2007D	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-107941-B-3	6MW2207	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-107941-B-4	6MW2307	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-107941-B-5	6MW2407	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-107941-B-6	6MW2507	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
280-107941-B-7	6MW2607	8260C DOD	T	5 mL	5 mL	<2 SU		10 uL	
CCVC 160-358977/20		8260C DOD		5 mL	5 mL		10 uL	10 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	I.S. Working 00163					
BFB 160-358977/2		8260C DOD							
CCV 160-358977/3		8260C DOD		10 uL					
LCS 160-358977/4		8260C DOD		10 uL					
LCSD 160-358977/5		8260C DOD		10 uL					
MB 160-358977/7		8260C DOD		10 uL					
280-107941-C-8	TB08	8260C DOD	T	10 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica St. Louis Job No.: 280-107941-1

SDG No.:

Batch Number: 358977 Batch Start Date: 04/04/18 14:37 Batch Analyst: Hann, John D

Batch Method: 8260C DOD Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	I.S. Working 00163					
280-107941-B-9	FB04	8260C DOD	T	10 uL					
280-107941-B-1	6MW2007	8260C DOD	T	10 uL					
280-107941-B-1 MS	6MW2007MS	8260C DOD	T	10 uL					
280-107941-B-1 MSD	6MW2007MSD	8260C DOD	T	10 uL					
280-107941-B-2	6MW2007D	8260C DOD	T	10 uL					
280-107941-B-3	6MW2207	8260C DOD	T	10 uL					
280-107941-B-4	6MW2307	8260C DOD	T	10 uL					
280-107941-B-5	6MW2407	8260C DOD	T	10 uL					
280-107941-B-6	6MW2507	8260C DOD	T	10 uL					
280-107941-B-7	6MW2607	8260C DOD	T	10 uL					
CCVC 160-358977/20		8260C DOD		10 uL					

Batch Notes	
Batch Comment	ICAL NCM 136063
pH Indicator ID	80A1771
Vial Lot Number	0119201C

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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-107941-1

SDG No.:

Project: Stratton ANGB, NY - Site 6

Client Sample ID	Lab Sample ID
6MW2007	280-107941-1
6MW2007D	280-107941-2
6MW2207	280-107941-3
6MW2307	280-107941-4
6MW2407	280-107941-5
6MW2507	280-107941-6
6MW2607	280-107941-7
FB04	280-107941-9

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2007 Lab Sample ID: 280-107941-1

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG ID.:

Matrix: Water Date Sampled: 03/28/2018 09:00

Reporting Basis: WET Date Received: 03/30/2018 08:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	3.5	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2007D
Lab Sample ID: 280-107941-2
Lab Name: TestAmerica Denver
Job No.: 280-107941-1
SDG ID.:
Matrix: Water
Date Sampled: 03/28/2018 09:05
Reporting Basis: WET
Date Received: 03/30/2018 08:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	3.5	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2207 Lab Sample ID: 280-107941-3

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG ID.:

Matrix: Water Date Sampled: 03/28/2018 10:20

Reporting Basis: WET Date Received: 03/30/2018 08:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	31	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2307 Lab Sample ID: 280-107941-4

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG ID.:

Matrix: Water Date Sampled: 03/28/2018 11:05

Reporting Basis: WET Date Received: 03/30/2018 08:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	3.1	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2407 Lab Sample ID: 280-107941-5

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG ID.:

Matrix: Water Date Sampled: 03/28/2018 12:00

Reporting Basis: WET Date Received: 03/30/2018 08:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	4.1	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2507 Lab Sample ID: 280-107941-6

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG ID.:

Matrix: Water Date Sampled: 03/28/2018 13:15

Reporting Basis: WET Date Received: 03/30/2018 08:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	6.5	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: 6MW2607 Lab Sample ID: 280-107941-7

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG ID.:

Matrix: Water Date Sampled: 03/28/2018 13:55

Reporting Basis: WET Date Received: 03/30/2018 08:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	3.4	1.0	0.50	0.16	mg/L			1	9060A

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: FB04 Lab Sample ID: 280-107941-9

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG ID.:

Matrix: Water Date Sampled: 03/28/2018 14:00

Reporting Basis: WET Date Received: 03/30/2018 08:50

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Total Organic Carbon - Quad	0.36	1.0	0.50	0.16	mg/L	J		1	9060A

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG No.:

Analyst: A1D Batch Start Date: 04/12/2018

Reporting Units: mg/L Analytical Batch No.: 411274

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	17:43	Total Organic Carbon - Quad	20.2	20.0	101	90-110		TOC ICV Std_00033
2	ICB	18:02	Total Organic Carbon - Quad	0.50				U	
27	CCV	01:11	Total Organic Carbon - Quad	24.5					
28	CCB	01:27	Total Organic Carbon - Quad	0.191				J	
39	CCV	04:55	Total Organic Carbon - Quad	24.8					
40	CCB	05:11	Total Organic Carbon - Quad	0.161				J	
51	CCV	08:41	Total Organic Carbon - Quad	24.7	25.0	99	90-110		TOC LCS Std_00039
52	CCB	08:57	Total Organic Carbon - Quad	0.163				J	

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	LOQ	Dil
Batch ID: 411274 Date: 04/13/2018 03:38							
9060A	MB 280-411274/35	Total Organic Carbon - Quad	0.175	J	mg/L	1.0	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 411274 Date: 04/13/2018 05:51											
9060A	280-107941-2	Total Organic Carbon - Quad	3.5		mg/L						
9060A	280-107941-2 MS	Total Organic Carbon - Quad	27.6		mg/L	25.0	96	88-112			

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

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 411274 Date: 04/13/2018 06:11											
9060A	280-107941-2 MSD	Total Organic Carbon - Quad	28.3		mg/L	25.0	99	88-112	2	15	

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

FORM V-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 411274 Date: 04/13/2018 03:22											
						LCS Source: TOC LCS Std_00039					
9060A	LCS 280-411274/34	Total Organic Carbon - Quad	24.6		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: 280-107941-1

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: 280-107941-1

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.: 280-107941-1

SDG No.:

Instrument ID: WC_SHI2 Analysis Method: 9060A

Start Date: 04/12/2018 17:43 End Date: 04/13/2018 14:09

Lab Sample Id	D/F	Type	Time	Analytes																								
				TOCQ																								
ICV 280-411274/1	1		17:43	X																								
ICB 280-411274/2	1		18:02	X																								
ZZZZZZ			18:19																									
ZZZZZZ			18:35																									
ZZZZZZ			18:50																									
ZZZZZZ			19:05																									
ZZZZZZ			19:22																									
ZZZZZZ			19:39																									
ZZZZZZ			19:57																									
ZZZZZZ			20:15																									
ZZZZZZ			20:31																									
ZZZZZZ			20:48																									
ZZZZZZ			21:04																									
ZZZZZZ			21:24																									
CCV 280-411274/15			21:39																									
CCB 280-411274/16			21:57																									
ZZZZZZ			22:14																									
ZZZZZZ			22:32																									
ZZZZZZ			22:50																									
ZZZZZZ			23:07																									
ZZZZZZ			23:24																									
ZZZZZZ			23:41																									
ZZZZZZ			23:58																									
ZZZZZZ			00:16																									
ZZZZZZ			00:35																									
ZZZZZZ			00:52																									
CCV 280-411274/27	1		01:11	X																								
CCB 280-411274/28	1		01:27	X																								
ZZZZZZ			01:45																									
ZZZZZZ			02:06																									
ZZZZZZ			02:25																									
ZZZZZZ			02:44																									
ZZZZZZ			03:01																									
LCS 280-411274/34	1	T	03:22	X																								
MB 280-411274/35	1	T	03:38	X																								
ZZZZZZ			03:55																									
ZZZZZZ			04:18																									
280-107941-1	1	T	04:36	X																								
CCV 280-411274/39	1		04:55	X																								
CCB 280-411274/40	1		05:11	X																								

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG No.:

Instrument ID: WC_SHI2 Analysis Method: 9060A

Start Date: 04/12/2018 17:43 End Date: 04/13/2018 14:09

Lab Sample Id	D/F	Type	Time	Analytes																								
				TOCQ																								
280-107941-2	1	T	05:34	X																								
280-107941-2 MS	1	T	05:51	X																								
280-107941-2 MSD	1	T	06:11	X																								
280-107941-3	1	T	06:31	X																								
280-107941-4	1	T	06:51	X																								
280-107941-5	1	T	07:09	X																								
280-107941-6	1	T	07:28	X																								
280-107941-7	1	T	07:47	X																								
280-107941-9	1	T	08:06	X																								
ZZZZZZ			08:24																									
CCV 280-411274/51	1		08:41	X																								
CCB 280-411274/52	1		08:57	X																								
ZZZZZZ			09:18																									
ZZZZZZ			09:35																									
ZZZZZZ			09:53																									
ZZZZZZ			10:12																									
ZZZZZZ			10:31																									
ZZZZZZ			10:51																									
ZZZZZZ			11:09																									
ZZZZZZ			11:29																									
ZZZZZZ			11:49																									
ZZZZZZ			12:15																									
CCV 280-411274/63			12:35																									
CCB 280-411274/64			12:51																									
ZZZZZZ			13:13																									
ZZZZZZ			13:32																									
CCV 280-411274/67			13:51																									
CCB 280-411274/68			14:09																									

Prep Types:
T = Total/NA

FORM XIII-IN

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-107941-1

SDG No.:

Batch Number: 411274 Batch Start Date: 04/12/18 17:43 Batch Analyst: Duplin, Alysha 1

Batch Method: 9060A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	TOC ICV Std 00033	TOC LCS Std 00039			
ICV 280-411274/1		9060A		50 mL	1 mL				
CCV 280-411274/27		9060A		200 mL					
LCS 280-411274/34		9060A		200 mL		5 mL			
CCV 280-411274/39		9060A		200 mL					
280-107941-A-2 MS	6MW2007D	9060A	T	50 mL		1.25 mL			
280-107941-A-2 MSD	6MW2007D	9060A	T	50 mL		1.25 mL			
CCV 280-411274/51		9060A		200 mL		5 mL			

Batch Notes	
Acid ID	H2SO4_00179 0.2%H2SO4_00289
Combustion Catylyst ID	17001D-01
Pipette/Syringe/Dispenser ID	5000ad1

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.

pH AD 4/12/18

	Analysis	Sample Name	Manual Diluti	~~Result~~	Notes	Date / Time	Vial
1*	NPOC	ICV	1.000	< 2			1
2*	NPOC	ICB	1.000	< 2			2
3*	NPOC	LCS	1.000	< 2			3
4*	NPOC	MB	1.000	< 2			4
5*	NPOC	TIC	1.000	< 2			5
6*	NPOC	280-107897-a-2	2x ~~1.000~~	< 2	Rerun		6
7*	NPOC	280-107947-d-4	1.000	< 2			7
8*	NPOC	MS 280-107947-d-4	1.000	< 2			8
9*	NPOC	MSD 280-107947-d-4	1.000	< 2			9
10*	NPOC	280-107947-d-2	1.000	< 2			10
11*	NPOC	280-107947-d-3	1.000	< 2			11
12*	NPOC	280-107947-d-1	1.000	< 2			12
13*	NPOC	280-107899-c-6	1.000	< 2			13
14*	NPOC	280-107899-a-3	1.000	< 2			14
15*	NPOC	CCV	1.000	< 2			15
16*	NPOC	CCB	1.000	< 2			16
17*	NPOC	280-107899-a-5	1.000	< 2			17
18*	NPOC	280-107899-a-7	1.000	< 2			18
19*	NPOC	280-107899-b-1	1.000	< 2			19
20*	NPOC	280-107899-c-2	1.000	< 2			20
21*	NPOC	280-107899-b-9	1.000	< 2			21
22*	NPOC	MS 280-107899-b-9	1.000	< 2			22
23*	NPOC	MSD 280-107899-b-9	1.000	< 2			23
24*	NPOC	280-107899-b-8	1.000	< 2			24
25*	NPOC	280-107928-a-2	1.000	< 2			25
26*	NPOC	280-107928-a-1	1.000	< 2			26
27*	NPOC	CCV	1.000	< 2			27
28*	NPOC	CCB	1.000	< 2			28
29*	NPOC	280-108139-a-3	1.000	< 2			29
30*	NPOC	280-108139-a-7	1.000	< 2			30
31*	NPOC	280-108139-a-6	1.000	< 2			31
32*	NPOC	280-108139-a-5	1.000	< 2			32
33*	NPOC	280-108139-a-4	1.000	< 2			33
34*	NPOC	LCS	1.000	< 2			34
35*	NPOC	MB	1.000	< 2			35
36*	NPOC	TIC	1.000	< 2			36
37*	NPOC	280-108139-a-2	1.000	< 2			37
38*	NPOC	280-107941-a-1	1.000	< 2			38
39*	NPOC	CCV	1.000	< 2			39
40*	NPOC	CCB	1.000	< 2			40
41*	NPOC	280-107941-a-2	1.000	< 2			41
42*	NPOC	MS 280-107941-a-2	1.000	< 2			42
43*	NPOC	MSD 280-107941-a-2	1.000	< 2			43
44*	NPOC	280-107941-a-3	1.000	< 2			44
45*	NPOC	280-107941-a-4	1.000	< 2			45
46*	NPOC	280-107941-a-5	1.000	< 2			46
47*	NPOC	280-107941-a-6	1.000	< 2			47
48*	NPOC	280-107941-a-7	1.000	< 2			48
49*	NPOC	280-107941-a-9	1.000	< 2			49
50*	NPOC	280-108139-a-29	1.000	< 2			50
51*	NPOC	CCV	1.000	< 2			51

pH AD 4/12/18

	Analysis	Sample Name	Manual Diluti	Result	Notes	Date / Time	Vial
52*	NPOC	CCB	1.000	< 2			52
53*	NPOC	280-108139-a-30	1.000	< 2			53
54*	NPOC	MS 280-108139-a-30	1.000	< 2			54
55*	NPOC	MSD 280-108139-a-30	1.000	< 2			55
56*	NPOC	680-150689-j-10	1.000	< 2			56
57*	NPOC	680-150689-j-7	5x ~~1.000~~	< 2	Cloudy		57
58*	NPOC	680-150689-j-4	1.000	< 2			58
59*	NPOC	680-150689-j-11	1.000	< 2			59
60*	NPOC	680-150689-j-9	1.000	< 2			60
61*	NPOC	680-150689-j-8	5x ~~1.000~~	< 2	Cloudy		61
62*	NPOC	680-150689-j-5	1.000	< 2			62
63*	NPOC	CCV	1.000	< 2			63
64*	NPOC	CCB	1.000	< 2			64
65*	NPOC	680-150689-j-6	1.000	< 2			65
66*	NPOC	280-108139-a-22	1.000	< 2			66
67*	NPOC	CCV	1.000	< 2			67
68*	NPOC	CCB	1.000	< 2			68

	Analysis	Sample Name	Manual Diluti	Result	Notes	Date / Time	Vial
1	NPOC	ICV	1.000	NPOC:20.16mg/		4/12/2018 5:54:20	1
2	NPOC	ICB	1.000	NPOC:0.1011m		4/12/2018 6:10:55	2
3	NPOC	LCS	1.000	NPOC:25.11mg/		4/12/2018 6:27:38	3
4	NPOC	MB	1.000	NPOC:0.2122m		4/12/2018 6:42:09	4
5	NPOC	TIC	1.000	NPOC:0.1340m		4/12/2018 6:56:40	5
6	NPOC	280-107897-a-2	2.000	NPOC:57.56mg/		4/12/2018 7:12:11	6
7	NPOC	280-107947-d-4	1.000	NPOC:0.3947m		4/12/2018 7:28:47	7
8	NPOC	MS 280-107947-d-4	1.000	NPOC:25.81mg/		4/12/2018 7:46:47	8
9	NPOC	MSD 280-107947-d-4	1.000	NPOC:25.69mg/		4/12/2018 8:04:40	9
10	NPOC	280-107947-d-2	1.000	NPOC:0.3012m		4/12/2018 8:21:15	10
11	NPOC	280-107947-d-3	1.000	NPOC:0.3185m		4/12/2018 8:39:55	11
12	NPOC	280-107947-d-1	1.000	NPOC:0.3604m		4/12/2018 8:54:20	12
13	NPOC	280-107899-c-6	1.000	NPOC:6.571mg/		4/12/2018 9:11:13	13
14	NPOC	280-107899-a-3	1.000	NPOC:8.975mg/		4/12/2018 9:31:20	14
15	NPOC	CCV	1.000	NPOC:25.22mg/		4/12/2018 9:47:22	15
16	NPOC	CCB	1.000	NPOC:0.1662m		4/12/2018 10:03:5	16
17	NPOC	280-107899-a-5	1.000	NPOC:24.60mg/		4/12/2018 10:22:0	17
18	NPOC	280-107899-a-7	1.000	NPOC:19.14mg/		4/12/2018 10:39:5	18
19	NPOC	280-107899-b-1	1.000	NPOC:7.299mg/		4/12/2018 10:57:0	19
20	NPOC	280-107899-c-2	1.000	NPOC:7.766mg/		4/12/2018 11:14:0	20
21	NPOC	280-107899-b-9	1.000	NPOC:0.8376m		4/12/2018 11:30:4	21
22	NPOC	MS 280-107899-b-9	1.000	NPOC:25.18mg/		4/12/2018 11:48:0	22
23	NPOC	MSD 280-107899-b-9	1.000	NPOC:25.41mg/		4/13/2018 12:05:4	23
24	NPOC	280-107899-b-8	1.000	NPOC:14.06mg/		4/13/2018 12:23:2	24
25	NPOC	280-107928-a-2	1.000	NPOC:2.883mg/		4/13/2018 12:42:0	25
26	NPOC	280-107928-a-1	1.000	NPOC:1.514mg/		4/13/2018 1:00:37	26
27	NPOC	CCV	1.000	NPOC:24.46mg/		4/13/2018 1:18:50	27
28	NPOC	CCB	1.000	NPOC:0.1911m		4/13/2018 1:35:25	28
29	NPOC	280-108139-a-3	1.000	NPOC:0.5809m		4/13/2018 1:54:05	29
30	NPOC	280-108139-a-7	1.000	NPOC:11.04mg/		4/13/2018 2:13:32	30
31	NPOC	280-108139-a-6	1.000	NPOC:1.062mg/		4/13/2018 2:32:08	31
32	NPOC	280-108139-a-5	1.000	NPOC:0.8336m		4/13/2018 2:51:05	32
33	NPOC	280-108139-a-4	1.000	NPOC:0.6262m		4/13/2018 3:09:41	33
34	NPOC	LCS	1.000	NPOC:24.61mg/		4/13/2018 3:30:31	34
35	NPOC	MB	1.000	NPOC:0.1746m		4/13/2018 3:47:02	35
36	NPOC	TIC	1.000	NPOC:0.1599m		4/13/2018 4:05:44	36
37	NPOC	280-108139-a-2	1.000	NPOC:0.4061m		4/13/2018 4:24:20	37
38	NPOC	280-107941-a-1	1.000	NPOC:3.542mg/		4/13/2018 4:43:00	38
39	NPOC	CCV	1.000	NPOC:24.83mg/		4/13/2018 5:03:21	39
40	NPOC	CCB	1.000	NPOC:0.1613m		4/13/2018 5:21:58	40
41	NPOC	280-107941-a-2	1.000	NPOC:3.512mg/		4/13/2018 5:40:36	41
42	NPOC	MS 280-107941-a-2	1.000	NPOC:27.64mg/		4/13/2018 5:58:29	42
43	NPOC	MSD 280-107941-a-2	1.000	NPOC:28.32mg/		4/13/2018 6:18:40	43
44	NPOC	280-107941-a-3	1.000	NPOC:30.76mg/		4/13/2018 6:38:45	44
45	NPOC	280-107941-a-4	1.000	NPOC:3.055mg/		4/13/2018 6:57:21	45
46	NPOC	280-107941-a-5	1.000	NPOC:4.116mg/		4/13/2018 7:16:07	46
47	NPOC	280-107941-a-6	1.000	NPOC:6.467mg/		4/13/2018 7:35:18	47
48	NPOC	280-107941-a-7	1.000	NPOC:3.440mg/		4/13/2018 7:54:02	48
49	NPOC	280-107941-a-9	1.000	NPOC:0.3607m		4/13/2018 8:12:38	49
50	NPOC	280-108139-a-29	1.000	NPOC:0.9099m		4/13/2018 8:31:14	50
51	NPOC	CCV	1.000	NPOC:24.70mg/		4/13/2018 8:49:19	51
52	NPOC	CCB	1.000	NPOC:0.1634m		4/13/2018 9:05:55	52
53	NPOC	280-108139-a-30	1.000	NPOC:0.7016m		4/13/2018 9:24:36	53

	Analysis	Sample Name	Manual Diluti	Result	Notes	Date / Time	Vial
54	NPOC	MS 280-108139-a-30	1.000	NPOC:25.13mg/		4/13/2018 9:42:21	54
55	NPOC	MSD 280-108139-a-30	1.000	NPOC:24.98mg/		4/13/2018 10:00:1	55
56	NPOC	680-150689-j-10	1.000	NPOC:1.812mg/		4/13/2018 10:18:5	56
57	NPOC	680-150689-j-7	5.000	NPOC:584.3mg/		4/13/2018 10:38:3	57
58	NPOC	680-150689-j-4	1.000	NPOC:1.289mg/		4/13/2018 10:57:2	58
59	NPOC	680-150689-j-11	1.000	NPOC:0.5711m		4/13/2018 11:16:0	59
60	NPOC	680-150689-j-9	1.000	NPOC:18.48mg/		4/13/2018 11:36:1	60
61	NPOC	680-150689-j-8	5.000	NPOC:485.3mg/		4/13/2018 12:03:1	61
62	NPOC	680-150689-j-5	1.000	NPOC:6.636mg/		4/13/2018 12:22:1	62
63	NPOC	CCV	1.000	NPOC:25.16mg/		4/13/2018 12:42:5	63
64	NPOC	CCB	1.000	NPOC:0.2118m		4/13/2018 1:01:31	64
65	NPOC	680-150689-j-6	1.000	NPOC:2.430mg/		4/13/2018 1:20:08	65
66	NPOC	280-108139-a-22	1.000	NPOC:3.333mg/		4/13/2018 1:38:49	66
67	NPOC	CCV	1.000	NPOC:25.13mg/		4/13/2018 1:58:48	67
68	NPOC	CCB	1.000	NPOC:0.2235m		4/13/2018 2:17:26	68

Instr.Information

System	SHI2
Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Sample

Sample Name:	ICV
Sample ID:	
Origin:	NPOC.met
Status	Completed
Chk. Result	

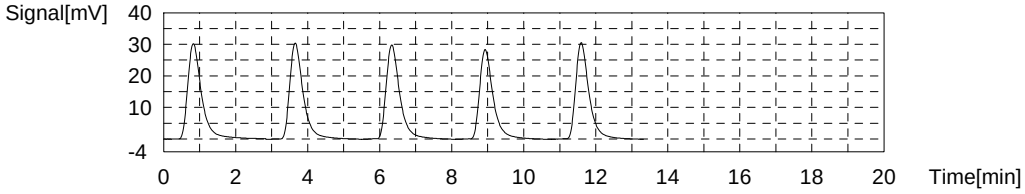
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.16mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	81.80	20.44mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 5:43:07 PM
2	80.55	20.13mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 5:45:58 PM
3	80.37	20.09mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 5:48:45 PM
4	75.40	18.84mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 5:51:36 PM
5	80.02	20.00mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 5:54:20 PM

Mean Area 80.69
Mean Conc. 20.16mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	NPOC.met
Status	Completed
Chk. Result	

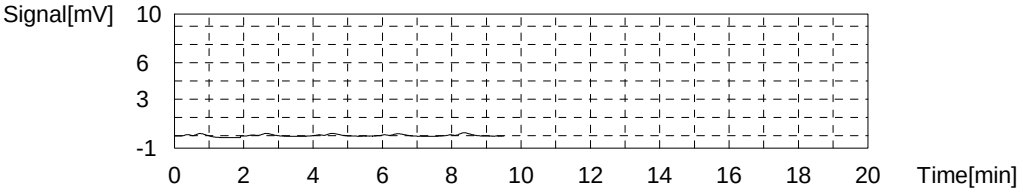
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1011mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6796	0.1148mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:02:35 PM
2	0.5611	0.08510mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:04:40 PM
3	0.6056	0.09626mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:06:45 PM
4	0.2836	0.01556mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:08:50 PM
5	0.6541	0.1084mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:10:55 PM

Mean Area 0.6251
Mean Conc. 0.1011mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

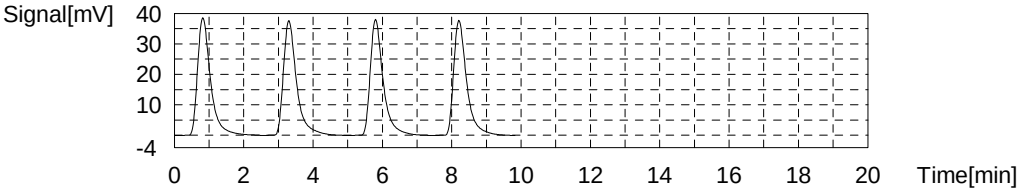
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.11mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	101.1	25.28mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:19:44 PM
2	100.8	25.20mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:22:25 PM
3	100.1	25.03mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:25:01 PM
4	99.74	24.94mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:27:38 PM

Mean Area 100.4
Mean Conc. 25.11mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

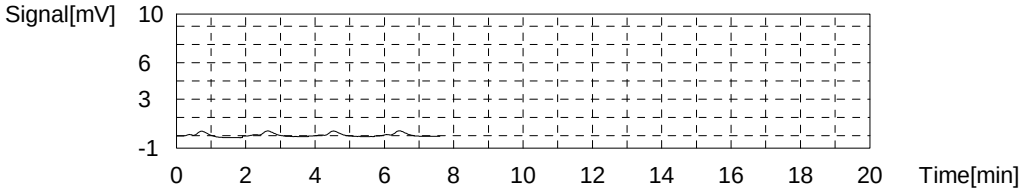
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2122mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.123	0.2259mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:35:54 PM
2	1.101	0.2204mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:37:59 PM
3	0.9894	0.1924mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:40:04 PM
4	1.059	0.2099mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:42:09 PM

Mean Area 1.068
Mean Conc. 0.2122mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

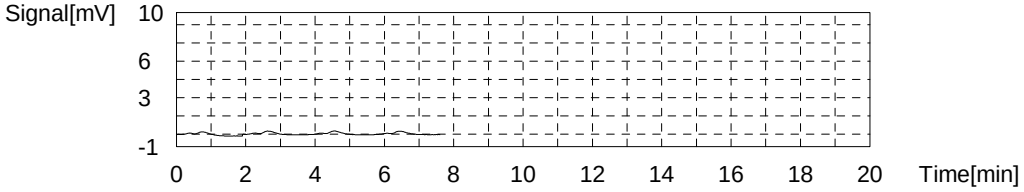
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1340mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6997	0.1198mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:50:25 PM
2	0.7902	0.1425mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:52:30 PM
3	0.8274	0.1518mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:54:35 PM
4	0.7073	0.1217mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 6:56:40 PM

Mean Area 0.7561
Mean Conc. 0.1340mg/L



Sample

Sample Name: 280-107897-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

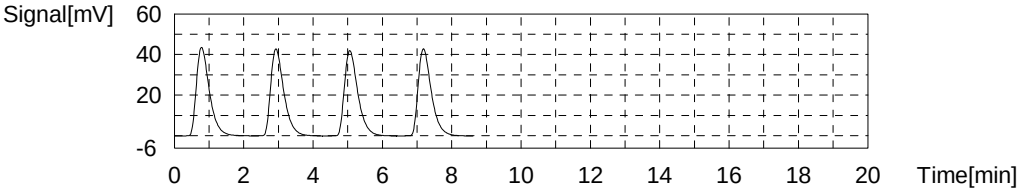
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	2.000	NPOC:57.56mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	115.4	57.73mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:05:11 PM
2	115.2	57.63mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:07:29 PM
3	114.6	57.33mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:09:48 PM
4	115.1	57.58mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:12:11 PM

Mean Area 115.1
Mean Conc. 57.56mg/L



Sample

Sample Name: 280-107947-d-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

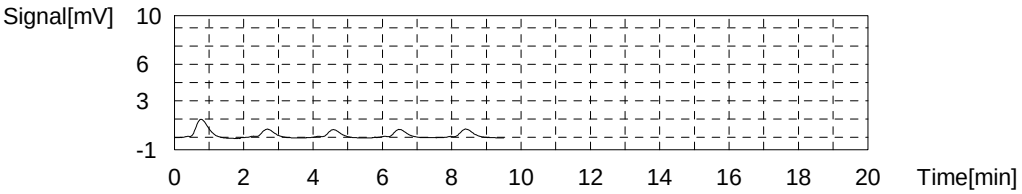
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3947mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.946	0.9334mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:20:27 PM
2	1.810	0.3981mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:22:32 PM
3	1.718	0.3750mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:24:37 PM
4	1.775	0.3893mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:26:42 PM
5	1.883	0.4164mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:28:47 PM

Mean Area 1.797
Mean Conc. 0.3947mg/L



Sample

Sample Name: MS 280-107947-d-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

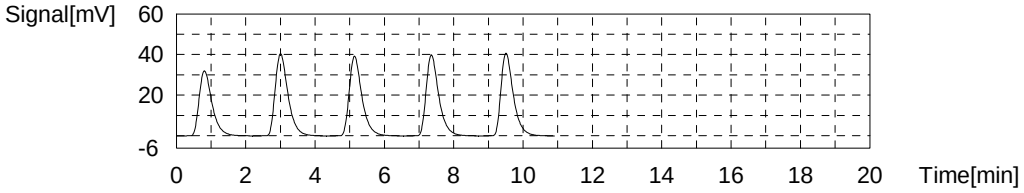
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.81mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	84.16	21.03mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:37:21 PM
2	106.0	26.51mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:39:39 PM
3	101.6	25.41mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:42:04 PM
4	102.6	25.66mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:44:25 PM
5	102.6	25.66mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:46:47 PM

Mean Area 103.2
Mean Conc. 25.81mg/L



Sample

Sample Name: MSD 280-107947-d-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

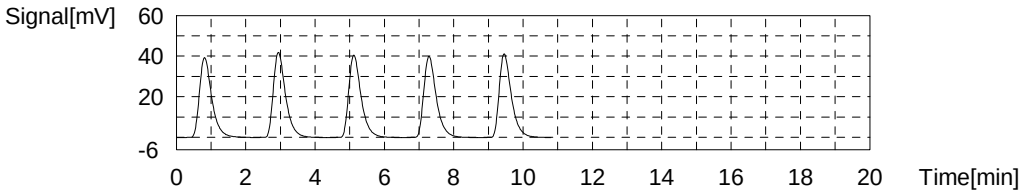
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.69mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.44	24.61mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:55:16 PM
2	104.9	26.23mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:57:38 PM
3	102.1	25.53mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 7:59:59 PM
4	102.0	25.51mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:02:21 PM
5	102.0	25.51mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:04:40 PM

Mean Area 102.8
Mean Conc. 25.69mg/L



Sample

Sample Name: 280-107947-d-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

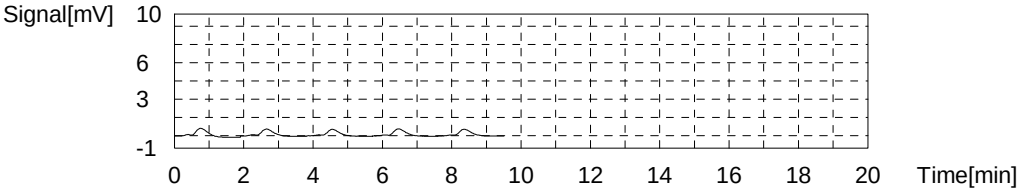
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3012mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.639	0.3552mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:12:55 PM
2	1.518	0.3249mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:15:00 PM
3	1.350	0.2828mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:17:05 PM
4	1.471	0.3131mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:19:10 PM
5	1.354	0.2838mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:21:15 PM

Mean Area 1.423
Mean Conc. 0.3012mg/L



Sample

Sample Name: 280-107947-d-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

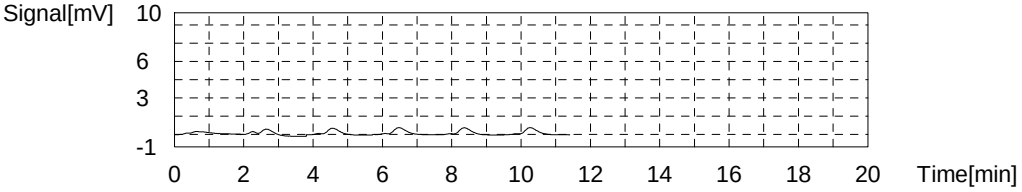
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3185mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9278	0.1770mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:29:30 PM
2	1.558	0.3349mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:31:35 PM
3	1.444	0.3064mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:33:40 PM
4	1.194	0.2437mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:35:45 PM
5	1.510	0.3229mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:37:50 PM
6	1.458	0.3099mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:39:55 PM

Mean Area 1.493
Mean Conc. 0.3185mg/L



Sample

Sample Name: 280-107947-d-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

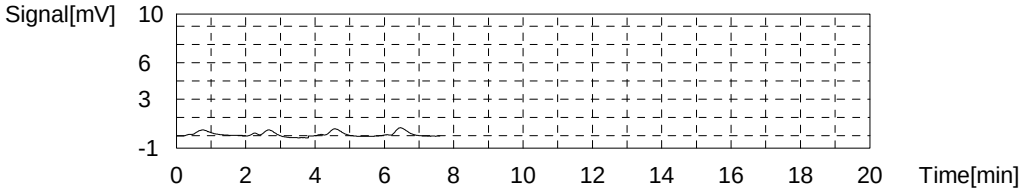
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3604mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.590	0.3429mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:48:05 PM
2	1.652	0.3585mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:50:10 PM
3	1.637	0.3547mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:52:15 PM
4	1.759	0.3853mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 8:54:20 PM

Mean Area 1.660
Mean Conc. 0.3604mg/L



Sample

Sample Name: 280-107899-c-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

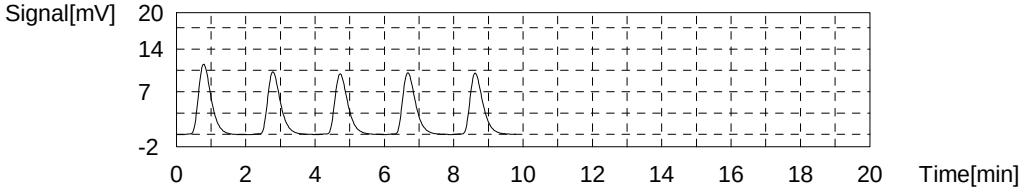
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.571mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	30.02	7.467mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:02:42 PM
2	26.74	6.646mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:04:49 PM
3	26.16	6.500mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:06:58 PM
4	26.53	6.593mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:09:05 PM
5	26.34	6.545mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:11:13 PM

Mean Area 26.44
Mean Conc. 6.571mg/L



Sample

Sample Name: 280-107899-a-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

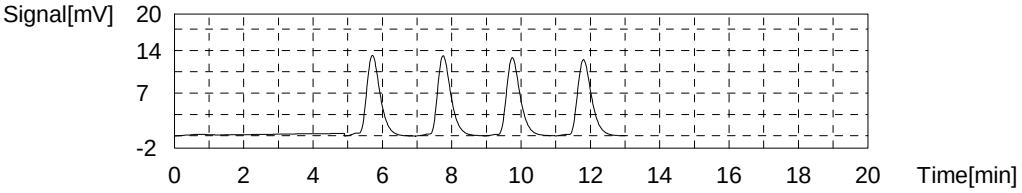
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.975mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.617	0.3497mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:22:29 PM
2	36.79	9.164mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:24:43 PM
3	35.71	8.893mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:26:52 PM
4	35.89	8.938mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:29:07 PM
5	35.76	8.906mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:31:20 PM

Mean Area 36.04
Mean Conc. 8.975mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

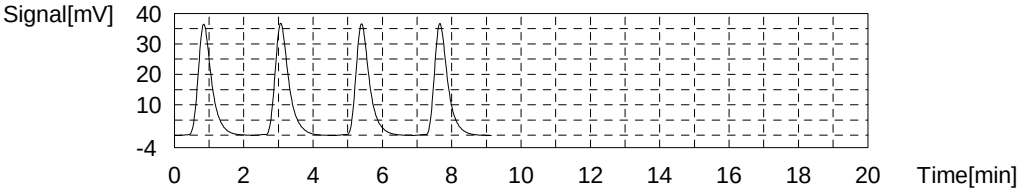
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.22mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.75	24.94mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:39:54 PM
2	103.5	25.88mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:42:26 PM
3	100.6	25.15mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:44:53 PM
4	99.52	24.88mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:47:22 PM

Mean Area 100.8
Mean Conc. 25.22mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

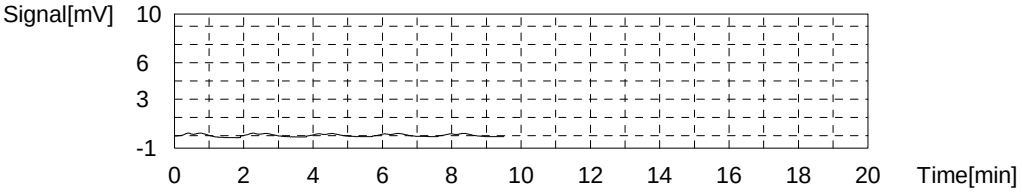
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1662mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.051	0.2079mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:55:38 PM
2	0.9610	0.1853mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:57:43 PM
3	0.8550	0.1588mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 9:59:48 PM
4	0.8272	0.1518mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:01:53 PM
5	0.8950	0.1688mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:03:58 PM

Mean Area 0.8846
Mean Conc. 0.1662mg/L



Sample

Sample Name: 280-107899-a-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

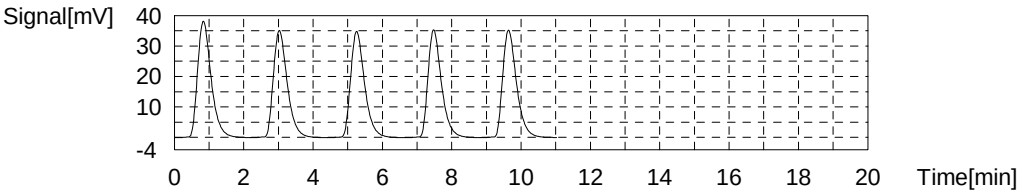
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.60mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	105.2	26.31mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:12:30 PM
2	99.19	24.80mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:14:54 PM
3	98.75	24.69mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:17:20 PM
4	96.83	24.21mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:19:41 PM
5	98.83	24.71mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:22:04 PM

Mean Area 98.40
Mean Conc. 24.60mg/L



Sample

Sample Name: 280-107899-a-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

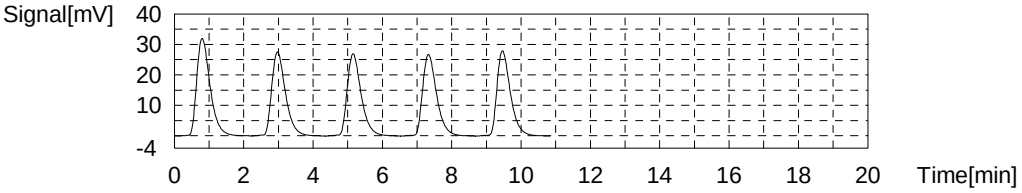
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.14mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.22	21.80mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:30:34 PM
2	77.56	19.38mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:32:56 PM
3	76.57	19.13mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:35:18 PM
4	76.11	19.02mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:37:38 PM
5	76.15	19.03mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:39:59 PM

Mean Area 76.60
Mean Conc. 19.14mg/L



Sample

Sample Name: 280-107899-b-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

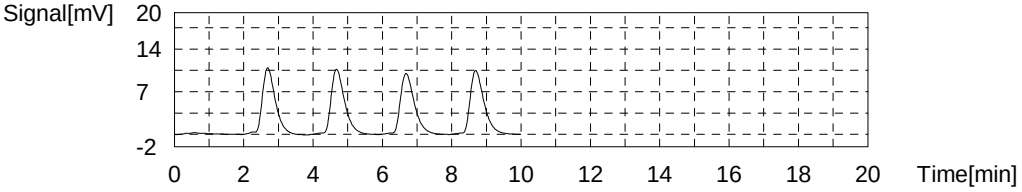
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.299mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9453	0.1814mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:48:14 PM
2	29.50	7.337mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:50:24 PM
3	29.62	7.367mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:52:35 PM
4	28.62	7.117mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:54:47 PM
5	29.65	7.375mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 10:57:03 PM

Mean Area 29.35
Mean Conc. 7.299mg/L



Sample

Sample Name: 280-107899-c-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

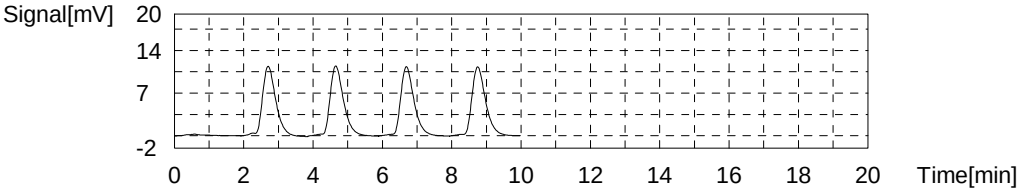
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.766mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9391	0.1798mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:05:18 PM
2	31.20	7.763mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:07:26 PM
3	31.36	7.803mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:09:39 PM
4	30.78	7.658mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:11:53 PM
5	31.51	7.841mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:14:06 PM

Mean Area 31.21
Mean Conc. 7.766mg/L



Sample

Sample Name: 280-107899-b-9
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

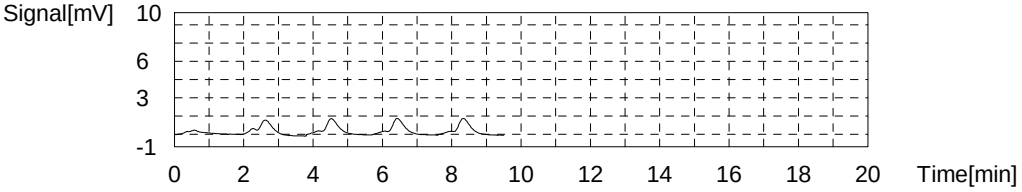
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8376mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.098	0.2197mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:22:21 PM
2	3.663	0.8624mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:24:26 PM
3	3.533	0.8299mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:26:31 PM
4	3.502	0.8221mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:28:36 PM
5	3.557	0.8359mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:30:41 PM

Mean Area 3.564
Mean Conc. 0.8376mg/L



Sample

Sample Name: MS 280-107899-b-9
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

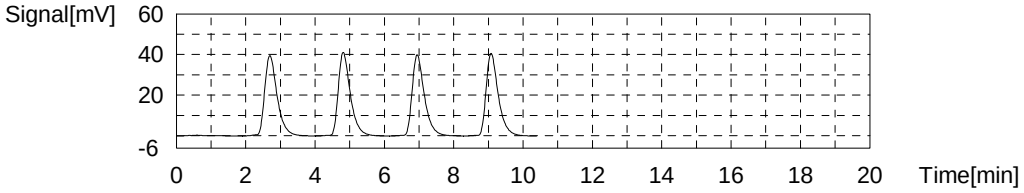
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.18mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.094	0.2186mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:38:56 PM
2	100.4	25.10mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:41:14 PM
3	101.5	25.38mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:43:33 PM
4	99.86	24.97mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:45:52 PM
5	101.1	25.28mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:48:09 PM

Mean Area 100.7
Mean Conc. 25.18mg/L



Sample

Sample Name: MSD 280-107899-b-9
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

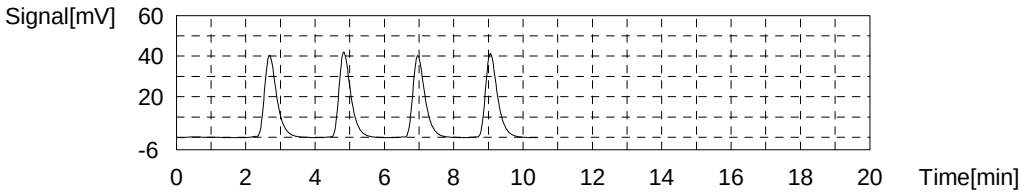
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.41mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9712	0.1879mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:56:24 PM
2	101.6	25.41mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/12/2018 11:58:44 PM
3	102.1	25.53mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:01:02 AM
4	100.5	25.13mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:03:19 AM
5	102.2	25.56mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:05:40 AM

Mean Area 101.6
Mean Conc. 25.41mg/L



Sample

Sample Name: 280-107899-b-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

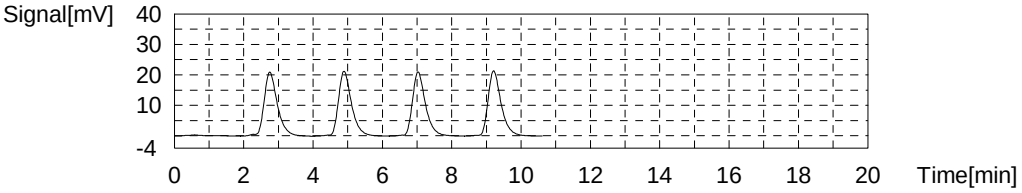
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.06mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9144	0.1736mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:13:55 AM
2	56.57	14.12mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:16:15 AM
3	56.25	14.04mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:18:34 AM
4	55.54	13.86mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:20:56 AM
5	56.90	14.20mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:23:21 AM

Mean Area 56.31
Mean Conc. 14.06mg/L



Sample

Sample Name: 280-107928-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

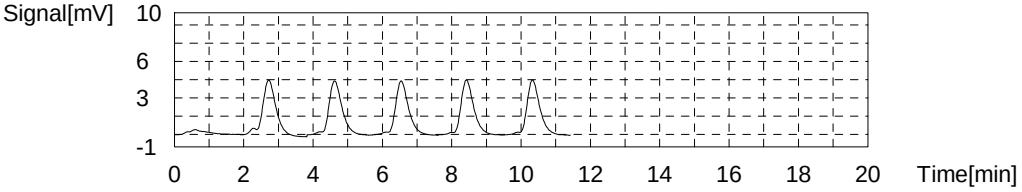
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.883mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.283	0.2660mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:31:36 AM
2	12.54	3.087mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:33:42 AM
3	11.77	2.894mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:35:47 AM
4	11.68	2.871mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:37:52 AM
5	11.73	2.884mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:39:57 AM
6	11.72	2.882mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:42:02 AM

Mean Area 11.73
Mean Conc. 2.883mg/L



Sample

Sample Name: 280-107928-a-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

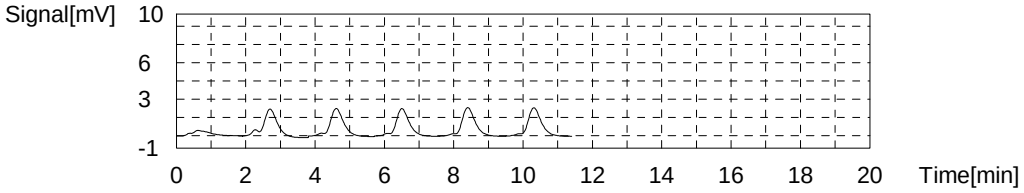
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.514mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.566	0.3369mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:50:12 AM
2	6.409	1.551mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:52:17 AM
3	6.160	1.488mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:54:22 AM
4	5.934	1.432mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:56:27 AM
5	6.206	1.500mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:58:32 AM
6	6.281	1.519mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:00:37 AM

Mean Area 6.264
Mean Conc. 1.514mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

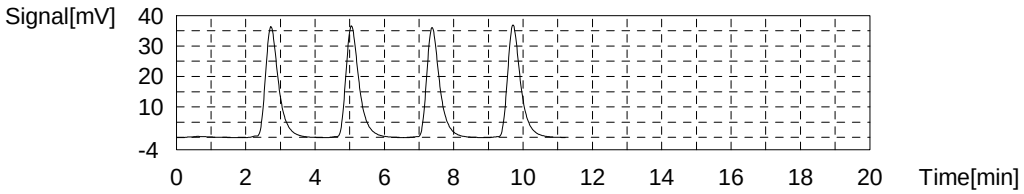
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.46mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.236	0.2542mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:08:47 AM
2	97.57	24.40mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:11:17 AM
3	99.11	24.78mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:13:48 AM
4	95.79	23.95mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:16:18 AM
5	98.89	24.73mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:18:50 AM

Mean Area 97.84
Mean Conc. 24.46mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

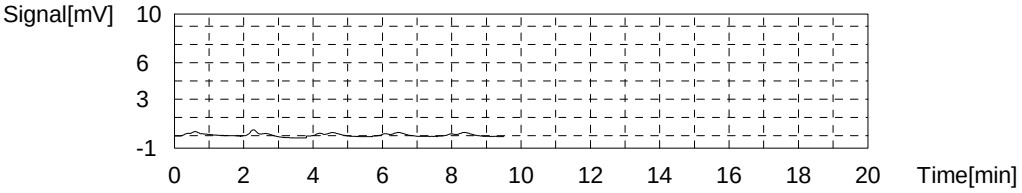
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1911mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9518	0.1830mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:27:05 AM
2	1.359	0.2851mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:29:10 AM
3	1.065	0.2114mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:31:15 AM
4	0.9889	0.1923mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:33:20 AM
5	0.9301	0.1776mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:35:25 AM

Mean Area 0.9839
Mean Conc. 0.1911mg/L



Sample

Sample Name: 280-108139-a-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

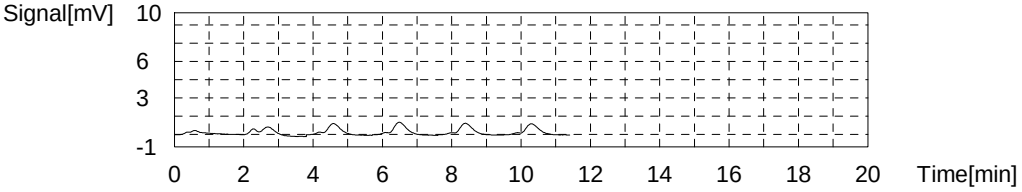
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5809mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9273	0.1769mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:43:40 AM
2	2.481	0.5662mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:45:45 AM
3	2.584	0.5920mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:47:50 AM
4	2.828	0.6532mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:49:55 AM
5	2.585	0.5923mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:52:00 AM
6	2.508	0.5730mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:54:05 AM

Mean Area 2.540
Mean Conc. 0.5809mg/L



Sample

Sample Name: 280-108139-a-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

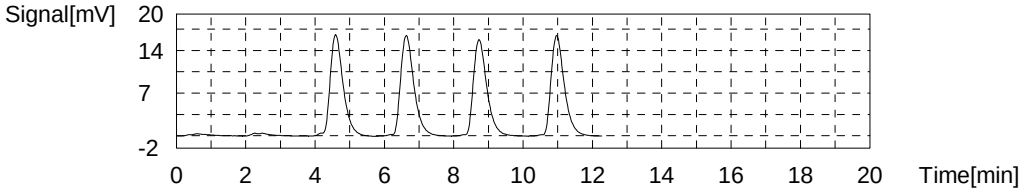
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.04mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.104	0.2212mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:02:15 AM
2	1.444	0.3064mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:04:20 AM
3	44.14	11.01mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:06:32 AM
4	44.89	11.19mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:08:49 AM
5	43.41	10.82mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:11:14 AM
6	44.64	11.13mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:13:32 AM

Mean Area 44.27
Mean Conc. 11.04mg/L



Sample

Sample Name: 280-108139-a-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

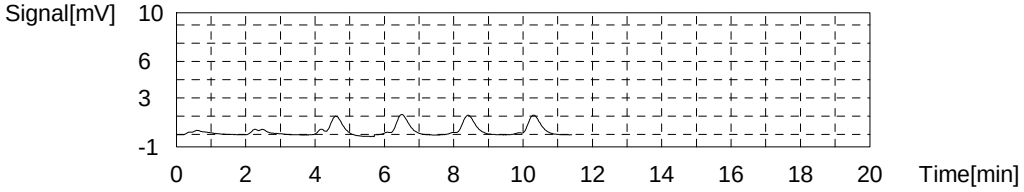
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.062mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.114	0.2237mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:21:43 AM
2	1.441	0.3056mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:23:48 AM
3	4.633	1.106mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:25:53 AM
4	4.504	1.073mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:27:58 AM
5	4.385	1.043mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:30:03 AM
6	4.315	1.026mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:32:08 AM

Mean Area 4.459
Mean Conc. 1.062mg/L



Sample

Sample Name: 280-108139-a-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

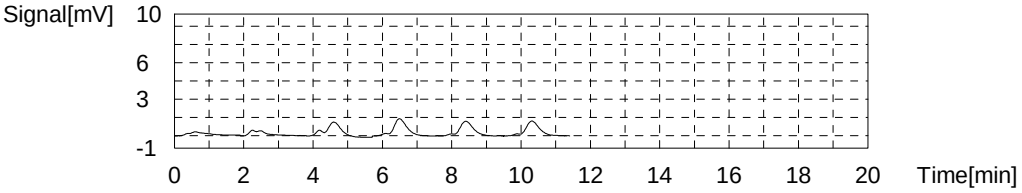
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8336mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.222	0.2507mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:40:40 AM
2	1.493	0.3186mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:42:45 AM
3	3.684	0.8677mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:44:50 AM
4	3.799	0.8965mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:46:55 AM
5	3.344	0.7825mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:49:00 AM
6	3.364	0.7875mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:51:05 AM

Mean Area 3.548
Mean Conc. 0.8336mg/L



Sample

Sample Name: 280-108139-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

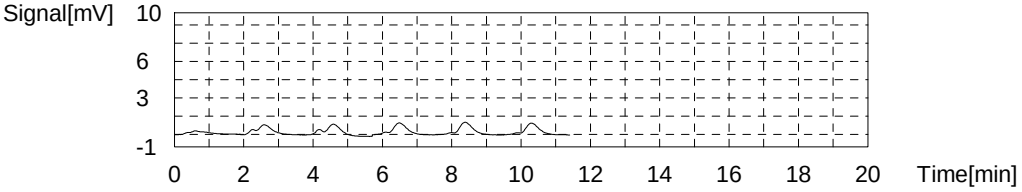
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6262mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.010	0.1976mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:59:16 AM
2	2.669	0.6133mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:01:21 AM
3	2.965	0.6875mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:03:26 AM
4	2.764	0.6371mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:05:31 AM
5	2.838	0.6557mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:07:36 AM
6	2.610	0.5986mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:09:41 AM

Mean Area 2.720
Mean Conc. 0.6262mg/L



Sample

Sample Name: LCS
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

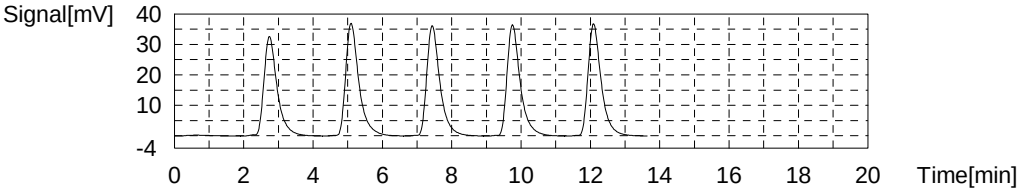
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.61mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.084	0.2161mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:17:52 AM
2	88.06	22.01mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:20:25 AM
3	99.69	24.93mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:22:56 AM
4	97.18	24.30mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:25:26 AM
5	98.29	24.58mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:27:57 AM
6	98.56	24.64mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:30:31 AM

Mean Area 98.43
Mean Conc. 24.61mg/L



Sample

Sample Name: MB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

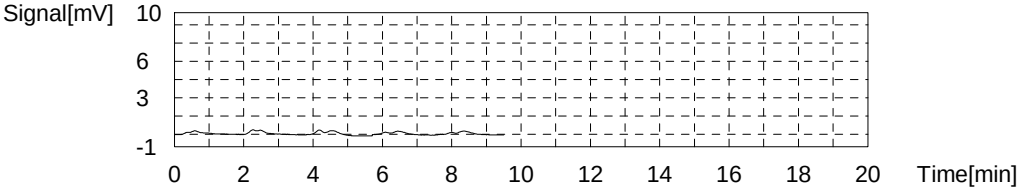
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1746mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8343	0.1536mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:38:42 AM
2	1.035	0.2039mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:40:47 AM
3	1.376	0.2893mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:42:52 AM
4	0.9667	0.1867mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:44:57 AM
5	0.8377	0.1544mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:47:02 AM

Mean Area 0.9184
Mean Conc. 0.1746mg/L



Sample

Sample Name: TIC
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

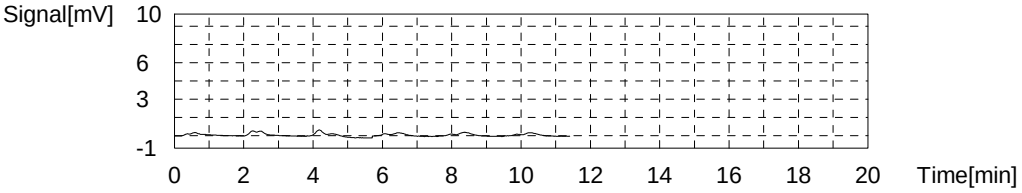
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1599mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8043	0.1461mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:55:18 AM
2	1.183	0.2410mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:57:24 AM
3	1.346	0.2818mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 3:59:29 AM
4	0.8698	0.1625mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:01:34 AM
5	0.9470	0.1818mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:03:39 AM
6	0.8166	0.1491mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:05:44 AM

Mean Area 0.8594
Mean Conc. 0.1599mg/L



Sample

Sample Name: 280-108139-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

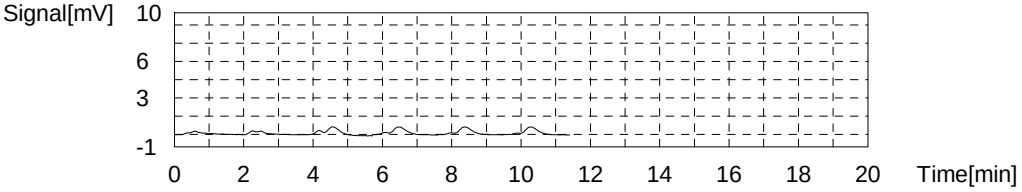
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4061mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8096	0.1474mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:13:55 AM
2	0.8509	0.1577mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:16:00 AM
3	2.065	0.4620mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:18:05 AM
4	1.862	0.4111mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:20:10 AM
5	1.771	0.3883mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:22:15 AM
6	1.670	0.3630mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:24:20 AM

Mean Area 1.842
Mean Conc. 0.4061mg/L



Sample

Sample Name: 280-107941-a-1
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

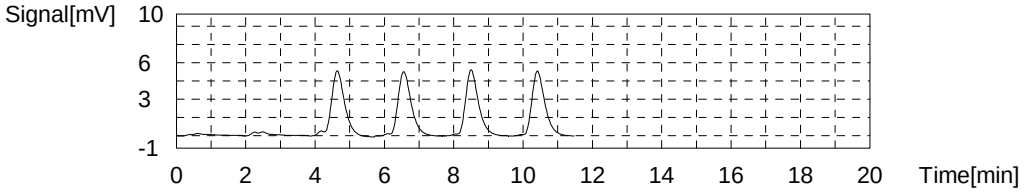
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.542mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6314	0.1027mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:32:31 AM
2	1.010	0.1976mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:34:36 AM
3	14.73	3.636mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:36:42 AM
4	14.32	3.533mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:38:50 AM
5	14.23	3.511mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:40:55 AM
6	14.15	3.490mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:43:00 AM

Mean Area 14.36
Mean Conc. 3.542mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

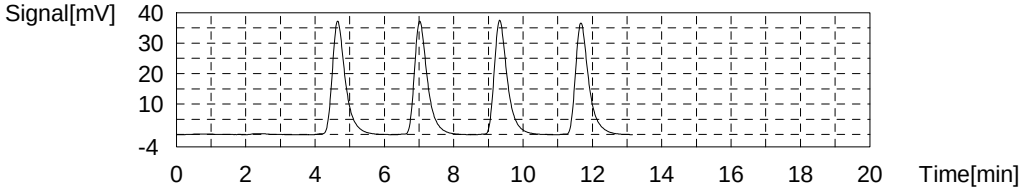
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.83mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.052	0.2081mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:51:11 AM
2	1.110	0.2227mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:53:16 AM
3	99.81	24.96mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:55:50 AM
4	98.49	24.63mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 4:58:19 AM
5	99.94	24.99mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:00:51 AM
6	98.93	24.74mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:03:21 AM

Mean Area 99.29
Mean Conc. 24.83mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

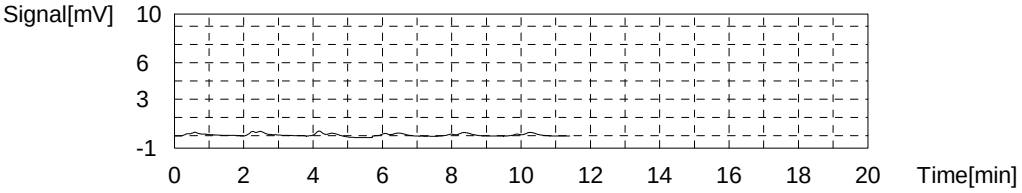
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1613mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9233	0.1759mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:11:32 AM
2	1.165	0.2364mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:13:37 AM
3	1.273	0.2635mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:15:43 AM
4	0.8692	0.1623mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:17:48 AM
5	0.8558	0.1590mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:19:53 AM
6	0.8116	0.1479mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:21:58 AM

Mean Area 0.8650
Mean Conc. 0.1613mg/L



Sample

Sample Name: 280-107941-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

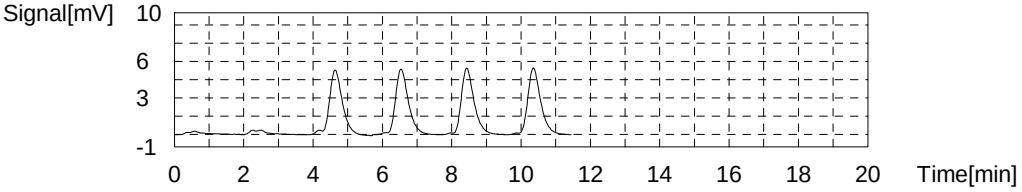
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.512mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7750	0.1387mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:30:09 AM
2	1.130	0.2277mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:32:14 AM
3	14.25	3.516mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:34:19 AM
4	14.09	3.475mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:36:24 AM
5	14.22	3.508mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:38:29 AM
6	14.39	3.551mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:40:36 AM

Mean Area 14.24
Mean Conc. 3.512mg/L



Sample

Sample Name: MS 280-107941-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

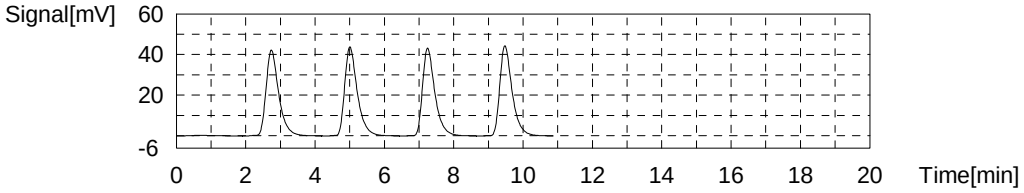
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.64mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.042	0.2056mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:48:47 AM
2	109.0	27.26mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:51:15 AM
3	112.5	28.14mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:53:41 AM
4	108.7	27.18mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:56:05 AM
5	111.8	27.96mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 5:58:29 AM

Mean Area 110.5
Mean Conc. 27.64mg/L



Sample

Sample Name: MSD 280-107941-a-2
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

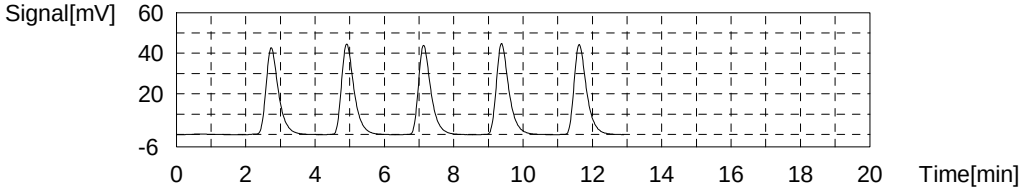
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.32mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9938	0.1935mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:06:45 AM
2	108.8	27.21mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:09:08 AM
3	114.1	28.54mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:11:31 AM
4	111.2	27.81mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:13:56 AM
5	114.8	28.71mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:16:23 AM
6	112.8	28.21mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:18:40 AM

Mean Area 113.2
Mean Conc. 28.32mg/L



Sample

Sample Name: 280-107941-a-3
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

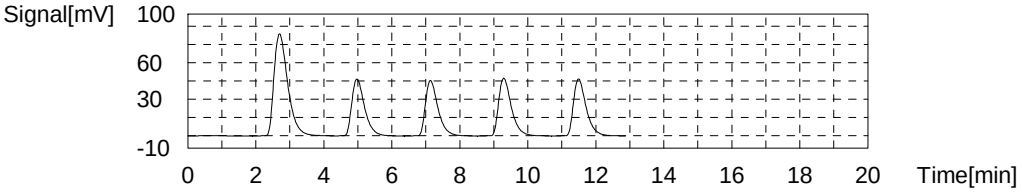
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.76mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.055	0.2089mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:26:51 AM
2	239.2	59.89mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:29:19 AM
3	124.5	31.14mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:31:41 AM
4	118.6	29.67mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:34:01 AM
5	125.5	31.39mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:36:24 AM
6	123.3	30.84mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:38:45 AM

Mean Area 123.0
Mean Conc. 30.76mg/L



Sample

Sample Name: 280-107941-a-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

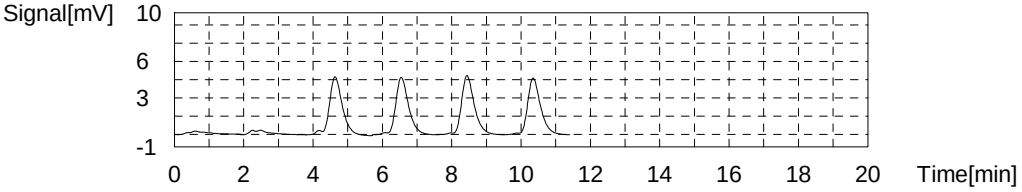
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.055mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9139	0.1735mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:46:56 AM
2	1.218	0.2497mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:49:01 AM
3	12.76	3.142mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:51:06 AM
4	12.28	3.022mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:53:11 AM
5	12.52	3.082mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:55:16 AM
6	12.09	2.974mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 6:57:21 AM

Mean Area 12.41
Mean Conc. 3.055mg/L



Sample

Sample Name: 280-107941-a-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

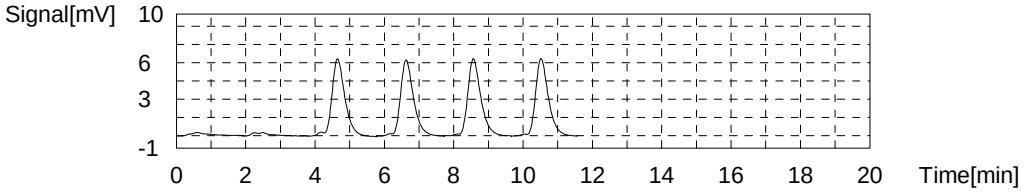
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.116mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8685	0.1621mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:05:32 AM
2	0.8568	0.1592mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:07:37 AM
3	16.87	4.172mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:09:47 AM
4	16.49	4.077mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:11:54 AM
5	16.76	4.145mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:14:02 AM
6	16.46	4.069mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:16:07 AM

Mean Area 16.65
Mean Conc. 4.116mg/L



Sample

Sample Name: 280-107941-a-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

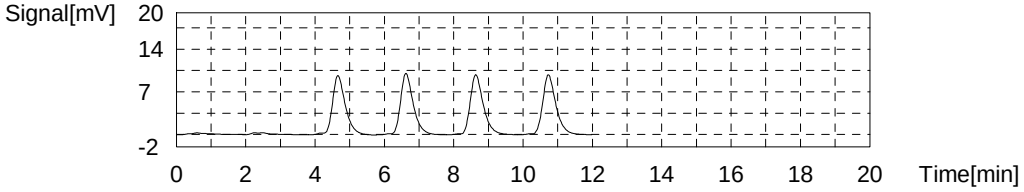
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.467mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9268	0.1767mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:24:18 AM
2	0.9659	0.1865mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:26:23 AM
3	25.48	6.330mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:28:32 AM
4	26.01	6.463mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:30:44 AM
5	26.19	6.508mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:32:58 AM
6	26.43	6.568mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:35:18 AM

Mean Area 26.03
Mean Conc. 6.467mg/L



Sample

Sample Name: 280-107941-a-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

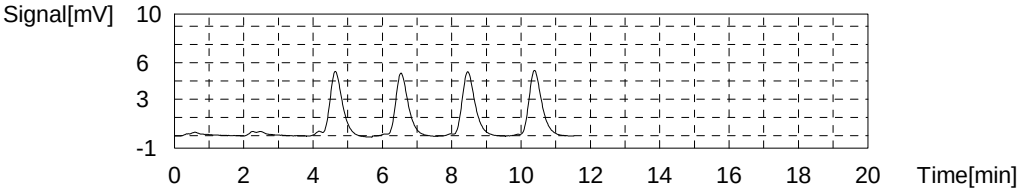
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.440mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8553	0.1588mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:43:29 AM
2	1.183	0.2410mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:45:34 AM
3	14.14	3.488mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:47:39 AM
4	13.35	3.290mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:49:45 AM
5	14.12	3.483mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:51:52 AM
6	14.18	3.498mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 7:54:02 AM

Mean Area 13.95
Mean Conc. 3.440mg/L



Sample

Sample Name: 280-107941-a-9
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

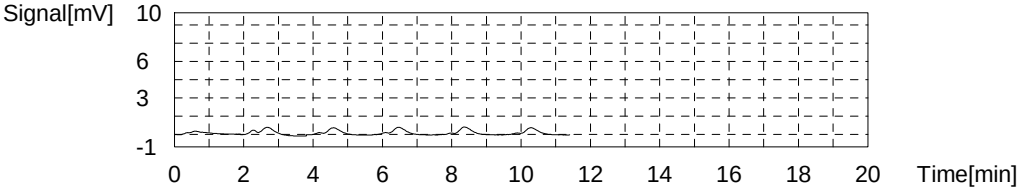
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3607mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9697	0.1875mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:02:13 AM
2	2.198	0.4953mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:04:18 AM
3	1.692	0.3685mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:06:23 AM
4	1.690	0.3680mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:08:28 AM
5	1.681	0.3658mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:10:33 AM
6	1.581	0.3407mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:12:38 AM

Mean Area 1.661
Mean Conc. 0.3607mg/L



Sample

Sample Name: 280-108139-a-29
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

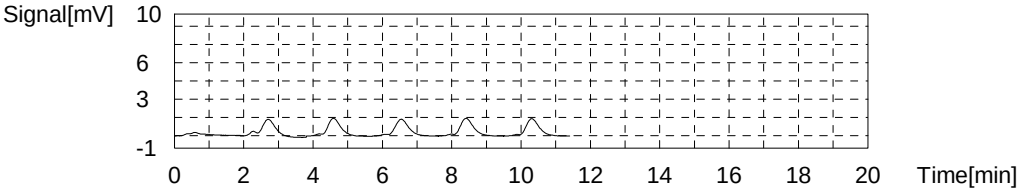
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.9099mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8094	0.1473mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:20:49 AM
2	4.186	0.9935mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:22:54 AM
3	3.819	0.9015mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:24:59 AM
4	3.868	0.9138mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:27:04 AM
5	3.920	0.9268mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:29:09 AM
6	3.803	0.8975mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:31:14 AM

Mean Area 3.853
Mean Conc. 0.9099mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

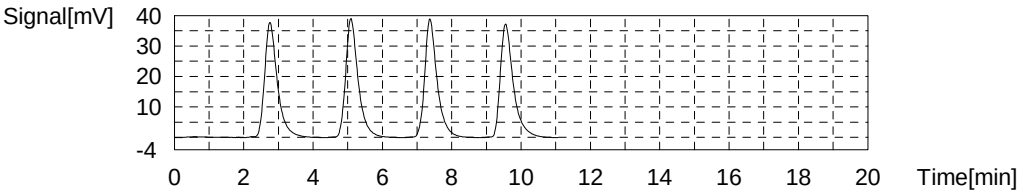
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.70mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8159	0.1490mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:39:25 AM
2	98.23	24.56mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:41:56 AM
3	99.50	24.88mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:44:22 AM
4	98.43	24.61mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:46:48 AM
5	99.03	24.76mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:49:19 AM

Mean Area 98.80
Mean Conc. 24.70mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

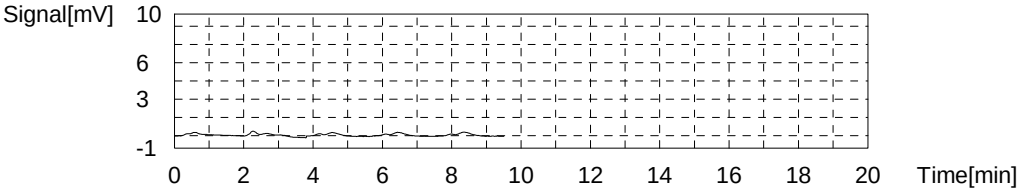
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1634mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7350	0.1287mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:57:35 AM
2	1.491	0.3181mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 8:59:40 AM
3	0.9020	0.1705mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:01:45 AM
4	0.8996	0.1699mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:03:50 AM
5	0.9581	0.1846mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:05:55 AM

Mean Area 0.8737
Mean Conc. 0.1634mg/L



Sample

Sample Name: 280-108139-a-30
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

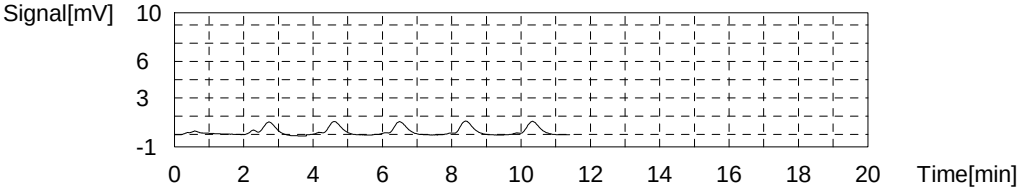
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7016mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8495	0.1574mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:14:11 AM
2	3.357	0.7858mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:16:16 AM
3	3.055	0.7101mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:18:21 AM
4	2.912	0.6742mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:20:26 AM
5	3.083	0.7171mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:22:31 AM
6	3.034	0.7048mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:24:36 AM

Mean Area 3.021
Mean Conc. 0.7016mg/L



Sample

Sample Name: MS 280-108139-a-30
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

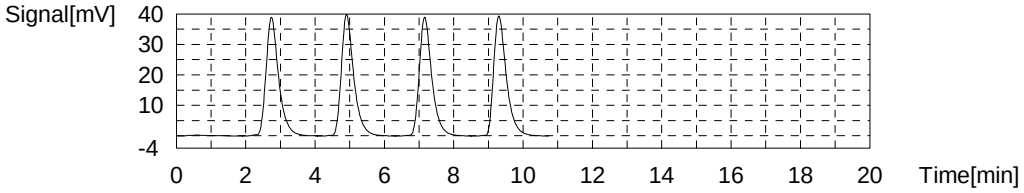
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.13mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8892	0.1673mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:32:47 AM
2	100.1	25.03mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:35:08 AM
3	100.9	25.23mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:37:33 AM
4	99.23	24.81mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:39:56 AM
5	101.8	25.46mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:42:21 AM

Mean Area 100.5
Mean Conc. 25.13mg/L



Sample

Sample Name: MSD 280-108139-a-30
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

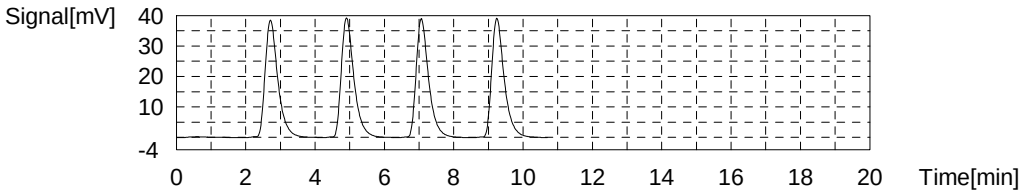
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.98mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8992	0.1698mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:50:37 AM
2	99.67	24.92mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:53:00 AM
3	100.8	25.20mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:55:20 AM
4	99.02	24.76mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 9:57:42 AM
5	100.2	25.05mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:00:10 AM

Mean Area 99.92
Mean Conc. 24.98mg/L



Sample

Sample Name: 680-150689-j-10
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

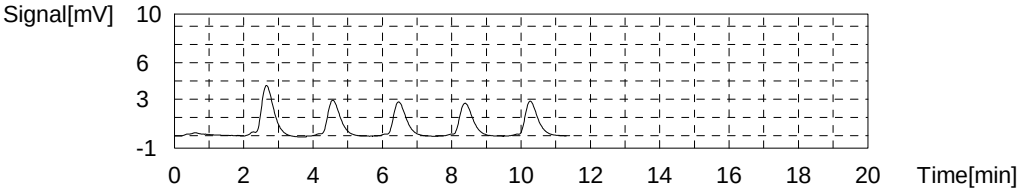
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.812mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8698	0.1625mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:08:26 AM
2	10.96	2.691mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:10:31 AM
3	7.693	1.872mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:12:36 AM
4	7.335	1.783mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:14:41 AM
5	7.356	1.788mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:16:46 AM
6	7.419	1.804mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:18:51 AM

Mean Area 7.451
Mean Conc. 1.812mg/L



Sample

Sample Name: 680-150689-j-7
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

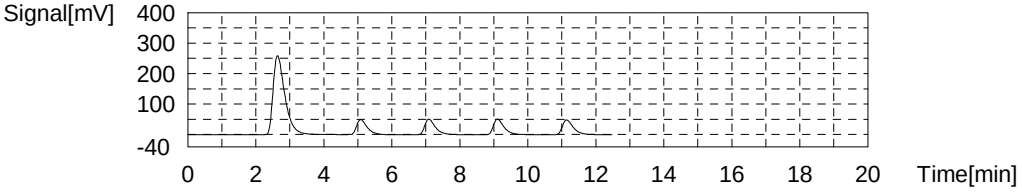
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	5.000	NPOC:584.3mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7830	0.7036mg/L	50uL	1	R	TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:27:03 AM
2	632.5	792.2mg/L	50uL	1	R	TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:29:42 AM
3	110.2	575.1mg/L	12uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:31:53 AM
4	113.3	591.2mg/L	12uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:34:05 AM
5	113.6	592.8mg/L	12uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:36:18 AM
6	110.8	578.2mg/L	12uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:38:32 AM

Mean Area 112.0
Mean Conc. 584.3mg/L



Sample

Sample Name: 680-150689-j-4
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

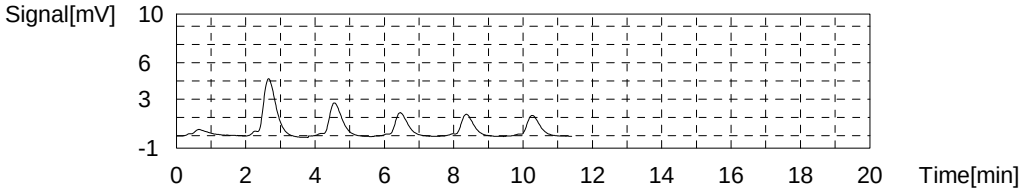
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.289mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.609	0.3477mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:47:01 AM
2	12.63	3.110mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:49:06 AM
3	7.250	1.761mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:51:11 AM
4	4.969	1.190mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:53:17 AM
5	4.731	1.130mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:55:22 AM
6	4.508	1.074mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 10:57:27 AM

Mean Area 5.365
Mean Conc. 1.289mg/L



Sample

Sample Name: 680-150689-j-11
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

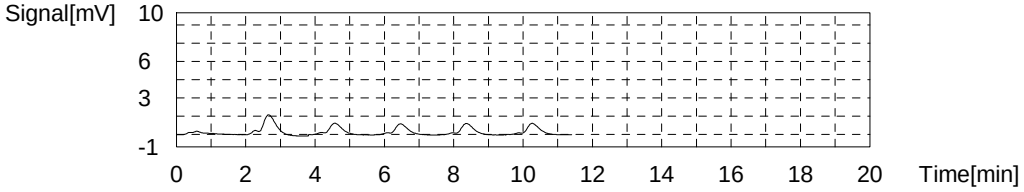
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5711mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7961	0.1440mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:05:39 AM
2	4.707	1.124mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:07:44 AM
3	2.614	0.5996mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:09:49 AM
4	2.431	0.5537mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:11:55 AM
5	2.494	0.5695mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:14:00 AM
6	2.462	0.5615mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:16:05 AM

Mean Area 2.500
Mean Conc. 0.5711mg/L



Sample

Sample Name: 680-150689-j-9
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

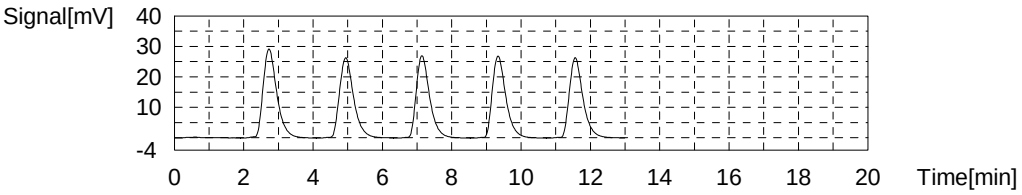
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:18.48mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7808	0.1402mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:24:17 AM
2	81.33	20.33mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:26:39 AM
3	75.63	18.90mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:29:04 AM
4	73.33	18.32mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:31:27 AM
5	74.01	18.49mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:33:50 AM
6	72.92	18.22mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:36:17 AM

Mean Area 73.97
Mean Conc. 18.48mg/L



Sample

Sample Name: 680-150689-j-8
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

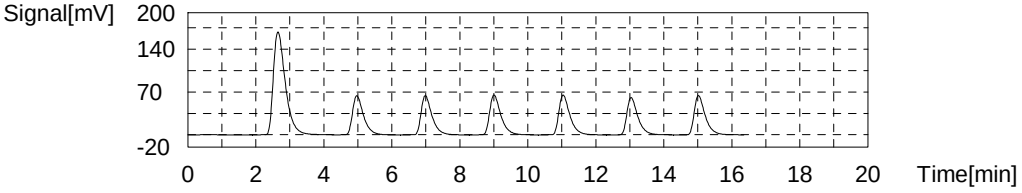
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	5.000	NPOC:485.3mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8614	0.8018mg/L	50uL	1	R	TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:44:30 AM
2	419.0	524.7mg/L	50uL	1	R	TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:47:01 AM
3	147.6	486.4mg/L	19uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:49:13 AM
4	145.1	478.2mg/L	19uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:51:25 AM
5	152.5	502.6mg/L	19uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:53:38 AM
6	149.4	492.3mg/L	19uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:55:49 AM
7	138.6	456.7mg/L	19uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 11:58:37 AM
8	146.9	484.1mg/L	19uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:03:12 PM

Mean Area 147.3
Mean Conc. 485.3mg/L



Sample

Sample Name: 680-150689-j-5
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

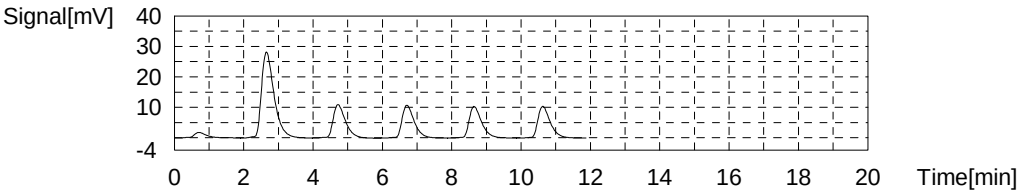
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.636mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.641	1.108mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:11:24 PM
2	72.12	18.02mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:13:39 PM
3	27.85	6.924mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:15:50 PM
4	26.70	6.635mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:17:57 PM
5	26.17	6.503mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:20:07 PM
6	26.09	6.483mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:22:18 PM

Mean Area 26.70
Mean Conc. 6.636mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

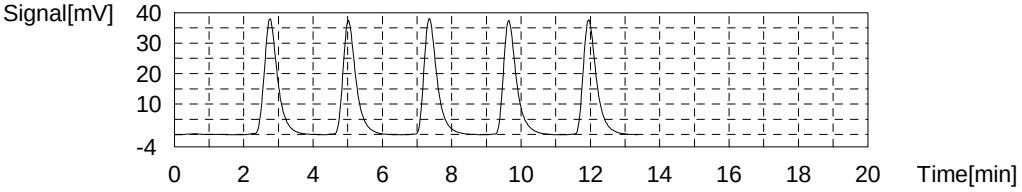
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.16mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7866	0.1416mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:30:30 PM
2	103.6	25.91mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:32:58 PM
3	98.86	24.72mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:35:31 PM
4	101.7	25.43mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:37:59 PM
5	99.95	24.99mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:40:28 PM
6	102.0	25.51mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:42:53 PM

Mean Area 100.6
Mean Conc. 25.16mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

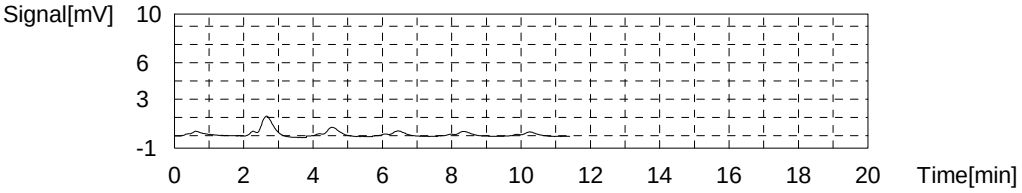
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2118mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.029	0.2024mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:51:05 PM
2	4.546	1.084mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:53:10 PM
3	1.962	0.4362mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:55:15 PM
4	1.201	0.2455mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:57:20 PM
5	1.068	0.2121mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 12:59:25 PM
6	0.9689	0.1873mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:01:31 PM

Mean Area 1.067
Mean Conc. 0.2118mg/L



Sample

Sample Name: 680-150689-j-6
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

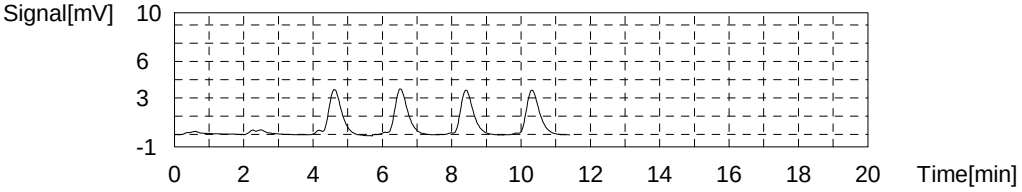
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.430mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8335	0.1534mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:09:43 PM
2	1.174	0.2387mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:11:48 PM
3	10.26	2.516mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:13:53 PM
4	9.968	2.442mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:15:58 PM
5	9.576	2.344mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:18:03 PM
6	9.874	2.419mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:20:08 PM

Mean Area 9.920
Mean Conc. 2.430mg/L



Sample

Sample Name: 280-108139-a-22
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

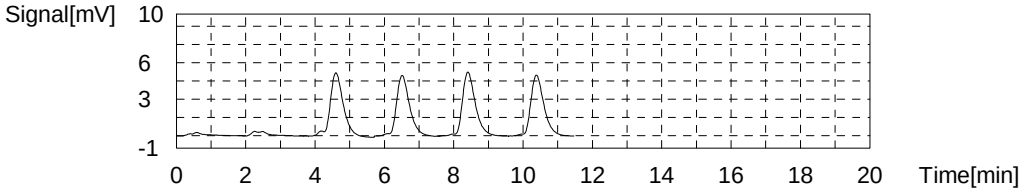
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.333mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7990	0.1447mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:28:20 PM
2	1.019	0.1999mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:30:25 PM
3	14.01	3.455mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:32:30 PM
4	13.19	3.250mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:34:35 PM
5	13.72	3.383mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:36:44 PM
6	13.16	3.242mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:38:49 PM

Mean Area 13.52
Mean Conc. 3.333mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

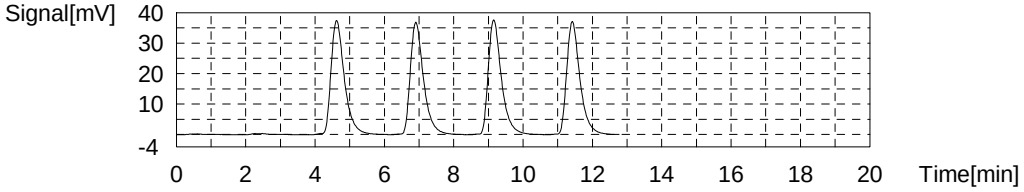
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.13mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7789	0.1397mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:47:01 PM
2	1.077	0.2144mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:49:06 PM
3	101.8	25.46mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:51:34 PM
4	99.41	24.86mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:54:00 PM
5	100.7	25.18mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:56:26 PM
6	100.1	25.03mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 1:58:48 PM

Mean Area 100.5
Mean Conc. 25.13mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: NPOC.met
Status Completed
Chk. Result

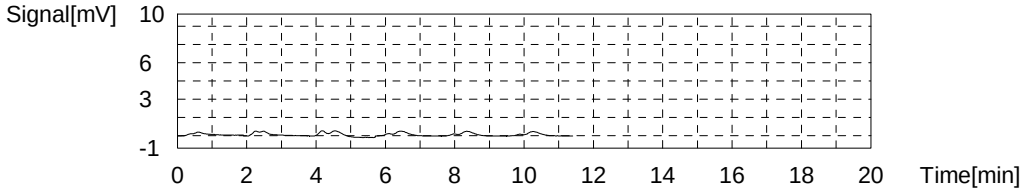
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2235mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9001	0.1701mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:07:00 PM
2	1.182	0.2407mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:09:05 PM
3	1.728	0.3775mg/L	50uL	1	E	TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:11:10 PM
4	1.154	0.2337mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:13:15 PM
5	1.112	0.2232mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:15:20 PM
6	1.006	0.1966mg/L	50uL	1		TOC2.2018_03_09_07_17_20.cal	4/13/2018 2:17:26 PM

Mean Area	1.114
Mean Conc.	0.2235mg/L



TOC-V Cal Curve Information
C:¥TOC3201¥CalCurves¥TOC2.2018_03_09_07_17_20.cal

Date of Creation 8:30:12 AM 3/9/2018
User ad
System SHI2

Cal. Curve

Sample Name: CAL
Sample ID: Untitled
Object ID 0A-103108-41445340-133ED550FBBD-0000
Cal. Curve: TOC2.2018_03_09_07_17_20.cal
Status Completed
Comment:

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.5043	50uL	1	*******		3/9/2018 7:25:20 AM
2	0.9102	50uL	1	*******	E	3/9/2018 7:27:25 AM
3	0.5535	50uL	1	*******		3/9/2018 7:29:30 AM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 0.5289
SD Area 0.03479
CV Area 6.58%
Vial 1

Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.153	50uL	1	*******	E	3/9/2018 7:37:47 AM
2	4.310	50uL	1	*******		3/9/2018 7:39:52 AM
3	4.421	50uL	1	*******		3/9/2018 7:41:57 AM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 4.366
SD Area 0.07849
CV Area 1.80%
Vial 2

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	20.42	50uL	1	*******		3/9/2018 7:50:24 AM
2	19.41	50uL	1	*******	E	3/9/2018 7:52:36 AM
3	20.17	50uL	1	*******		3/9/2018 7:54:48 AM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 20.30
SD Area 0.1768
CV Area 0.87%
Vial 3

Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	39.56	50uL	1	*******		3/9/2018 8:03:16 AM
2	40.72	50uL	1	*******	E	3/9/2018 8:05:38 AM
3	39.54	50uL	1	*******		3/9/2018 8:07:56 AM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 39.55
SD Area 0.01414
CV Area 0.04%
Vial 4

Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	99.34	50uL	1	*******		3/9/2018 8:16:34 AM
2	100.2	50uL	1	*******		3/9/2018 8:18:59 AM

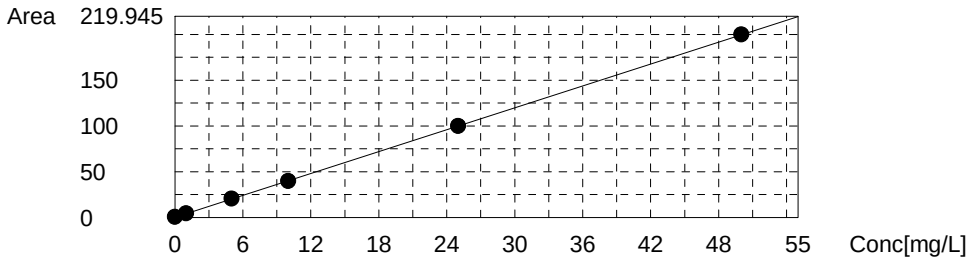
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 99.77
SD Area 0.6081
CV Area 0.61%
Vial 5

Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	201.0	50uL	1	*******		3/9/2018 8:27:43 AM
2	198.9	50uL	1	*******		3/9/2018 8:30:12 AM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 199.9
SD Area 1.485
CV Area 0.74%
Vial 6

Slope: 3.990
Intercept 0.2215
r^2 1.0000
r 1.0000
Zero Shift No



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TOC Data Review Checklist

QA 4/17/18

SOP No. NC_00006		Instrument ID: SHIMA2
LIMS Prep Batch#: N/A	LIMS Analytical Batch# 411274	ICAL Batch N/A
Analyst(s)/1st Reviewer/Date: AD 4/13/18		QC Type (circle): Standard LCSD DOD Q4 DoD Q5 QAPP_____ Other_____
Method (circle): 9060 5310B		
Matrix (circle): Water Solid Waste Leachate		Circle all that apply: Total Field Filtered Lab Filtered

Review Items	Yes	No	NA	2nd Rev	If No, why is data reportable? (List NCM #)
A. Calibration/Instrument Run QC					
1. Verify intermediate standards for correct concentration stated in SOP (ICAL pts at correct concentration)	/			/	
2. Number of Points: 1st order: 5 standards; 2nd order: 6 standards	/			/	
3. Linearity and intercept: $r \geq 0.995$ ($r^2 \geq 0.99$) |x-intercept| < ½ RL	/			/	
4. ICV, second source: run before samples 90-110% recovery	/			/	
5. CCV: 10% frequency & closing 90-110% recovery	/			/	
6. TC and TIC Data entered correctly Identified in raw data Associated with correct QC			/	/	
7. ICB: run before samples, CCB: 10% frequency, & closing	/			/	
B. Client Sample and QC Sample Results					
8. Samples with results > linear range diluted and reanalyzed?	/			/	Comments:
9. On-instrument response of diluted sample is >10X |MB| on-instrument response	/			/	Comments:
C. Preparation/Matrix QC					
10. If samples are lab filtered, QC samples filtered?	/			/	
11. Method Blank: one per preparation batch	/			/	*If no, list blank ID & explain:*
12. LCS: one per preparation batch 90-110% recovery	/			/	*If no, list LCS ID & explain:*
13. MS/MSD or MS/Dup frequency (Determine correct frequency by method or reference SOP) A pair per 20 samples or a pair per 10 samples	/			/	*If no, list QC ID & explain:*

Review Items	Yes	No	NA	2nd Rev	If No, why is data reportable?
D. Raw Data & TALS Data Entry					
14. Raw Data/Run Log					
a. Unused data is clearly identified and reason not used is stated	✓			✓	
b. All cross outs are initialed and dated	✓			✓	
c. Out of control QC is clearly identified	✓			✓	
d. Any data that has a qualifier is commented on with appropriate action taken	✓			✓	
e. The first page of the run includes the filename, instrument, and analyst initials/signature f. Analyst initials/signature provided	✓			✓	
15. TALS Sample List					
a. LIMS Sample IDs / Containers are correct	✓			✓	
b. Method and matrix are correct	✓			✓	
c. Date and time match raw data	✓			✓	
d. Dilutions are correct	✓			✓	
e. Correct suffix (DU, MS, MSD) designated (where applicable)	✓			✓	
16. TALS Worksheet Tab is complete and correct	✓			✓	
17. Sample pH, presence of chlorine/sulfide recorded?	✓			✓	
18. NCM written for any samples needing preservation at the bench?	✓			✓	
19. TALS Reagent Tab is complete and correct	✓			✓	
20. TALS QC Links Tab is correct	✓			✓	
21. TALS Sample Results Tab					
a. All unused data are marked Rejected or Accepted	✓			✓	
b. All reported analytes are marked Primary or Secondary	✓			✓	
22. TALS Batch Information Screen documentation is complete	✓			✓	
23. Historical Data Checker: Check historical data. Print charts for outliers. Take corrective action as appropriate	✓			✓	
24. TALS Status set to appropriate review level	✓			✓	
E. Final Report and NCMs (2nd level review only)					
25. Were all job/project requirements met?				✓	
26. Results for samples and QC correct on final report?				✓	
27. Are all necessary scanned documents in TALS?				✓	
28. NCMs reviewed for applicability, correct references to batches, grammar/typographical errors?				✓	

Comments: _____

_____

_____

2nd Reviewer: _____ **Review Date:** 4/17/18

Subcontract Data

Shipping and Receiving Documents

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Michael Deyette	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Michael Poligone	Phone: 518-496-5313	E-Mail: donna.rydberg@testamericainc.com		Page: Page _1__ of _1__
Company: Leidos, Inc.				Job #: Leidos Stratton (TA project #28015159)
Address: 301 Laboratory Road	Due Date Requested:			
City: Oak Ridge	TAT Requested (days): Standard TAT (21 Days)			
State, Zip: TN, 37830				
Phone: 865-405-8332 (cell)	PO #: P010205723			
Email: poligonem@leidos.com	Charge #: CLIN 0002: 314561.00.04.8002.940			
Project Name: 2015 Eastern IRP, DO0004	Project #: Leidos Stratton (TA project #28015159)			
Site: Stratton ANG Base - Site 6	SSOW#:			

Analysis Requested

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:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C_DOD5 - VOCs	9060A - TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S		
6MW2007	3/28/18	9:00	G	W	N	N	X	X	4	Samples shipped to TA Denver
6MW2007D	3/28/18	9:05	G	W	N	N	X	X	4	
6MW2007MS	3/28/18	9:10	G	W	N	Y	X		3	
6MW2007MSD	3/28/18	9:15	G	W	N	Y	X		3	
6MW2207	3/28/18	10:20	G	W	N	N	X	X	4	
6MW2307	3/28/18	11:05	G	W	N	N	X	X	4	
6MW2407	3/28/18	12:00	G	W	N	N	X	X	4	
6MW2507	3/28/18	13:15	G	W	N	N	X	X	4	
6MW2607	3/28/18	13:55	G	W	N	N	X	X	4	
TB08	3/28/18	14:05	QC	W	N	N	X		2	
FB04	3/28/18	14:00	QC	W	N	N	X	X	4	
	~~3/28/18~~	MD								

280-107941 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
(Per Contract Terms - Lab disposal after 3 months archive

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 3/28/18 15:16	Company: Aztech	Received by: [signature] Date/Time: 3-28-18 1516 Company: TA
Relinquished by: [signature]	Date/Time: 3-28-18 1800	Company: TA	Received by: [signature] Date/Time: 3-29-18 0130 Company: TA
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: Relinquished by Andrew Likolb 03129118 1700		Cooler Temperature(s) °C and Other Remarks: 1.8 #1

Received by [signature] 3/30/18 0850 TM-DEN 0.2°/-0.1 IR#8 Transferred 3/30/18

Ver: 08/04/2016

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-432303.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA; NELAP - Florida; NELAP - New Hampshire ...		Job #: 280-107941-1
Address: 13715 Rider Trail North,	Due Date Requested: 4/18/2018	Analysis Requested		Preservation Codes:
City: Earth City	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: MO, 63045				Other:
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Stratton ANGB, NY (Schenectady)	Project #: 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)	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:
			Preservation Code:						
6MW2007 (280-107941-1)	3/28/18	09:00 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2007MS (280-107941-1MS)	3/28/18	09:00 Eastern	MS	Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2007MSD (280-107941-1MSD)	3/28/18	09:00 Eastern	MSD	Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2007D (280-107941-2)	3/28/18	09:05 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2207 (280-107941-3)	3/28/18	10:20 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2307 (280-107941-4)	3/28/18	11:05 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2407 (280-107941-5)	3/28/18	12:00 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2507 (280-107941-6)	3/28/18	13:15 Eastern		Water			X	3	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
6MW2607 (280-107941-7)	3/28/18	13:55 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 out 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 complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ 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:	Company	Received by:	Date/Time:	Company
	4/2/18 1635		Kristine Taylor	4318 0915	TAStL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Rydberg, Donna R	Carrier Tracking No(s):	COC No: 280-432303.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: donna.rydberg@testamericainc.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): DoD ELAP - A2LA; NELAP - Florida; NELAP - New Hampshire ...		Job #: 280-107941-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 4/18/2018			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Stratton ANGB, NY (Schenectady)	Project #: 28015159			
Site:	SSOW#:			

Analysis Requested

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:

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:
			Preservation Code:						
TB08 (280-107941-8)	3/28/18	14:05 Eastern		Water			X	2	DOD QSM Variances Rev122815, DIL3, report only lowest dilution w/in calibration
FB04 (280-107941-9)	3/28/18	14:00 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 out 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 complicance 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:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	4/2/18 1635		Kristen Taylor	4/3/18 0915	TAST
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Leidos, Inc.

Job Number: 280-107941-1

Login Number: 107941
List Number: 1
Creator: Blogin, Nick C

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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 <6mm (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: 280-107941-1

Login Number: 107941
List Number: 2
Creator: Taylor, Kristene N

List Source: TestAmerica St. Louis
List Creation: 04/03/18 02:36 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	1.4
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 <6mm (1/4").	True	Headspace larger than 1/4". See STL CUR for samples w/ headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

LEIDOS
Laboratory Data Verification Checklist

Project: Stratton

SDG No: J107941

Analyte Group: Select VOCs
Sample Matrix: Aqueous
EDD (Y/N):

Disposition of Data Package:
NCR No. (if applicable):

1. Case Narrative

Read SDG Case Narrative	Y
Check Laboratory sample ID vs. Project sample ID lists	
Check that discussion covers each analytical type included in the SDG	
Check for identified nonconforming items (e.g., missed holding times, etc.)	

2. Chain-of-Custody (COC)

Check COC sample collection, shipping, and receiving dates	
Check that COC signature blocks are complete	
Check COC project sample IDs vs. Lab IDs and Result Form IDs	
Match COC requested analyses with Case Narrative and with data package content (Result Forms)	

3. Analytical Results Form

Verify that a Result Form is present for each sample and analysis	
On each Result Form check:	
SDG No.	
Sample ID	
Lab ID	
Date Collected	
Date Extracted	
Date Analyzed	
Result Matrix	
Result Units	

4. Project Verification

Check project analyte list vs. analytes reported Full VOCs, TOC reported; only cis-1,2 Dichloroethene, Tetrachloroethene, Trichloroethene, and Vinyl Chloride require validation	Y
Check project requested methods vs. analytical methods performed	
Check analyte reporting levels vs. project reporting level goals	

5. Analytical Quality Control Information

Check for surrogate recovery results (e.g., org. form II)	
Check for LCS results (e.g., org. form III, inorg. form XII)	
Check for method blank results (e.g., org. form IV, inorg. form III)	
Check for MS/MSD results (e.g., inorg. form V)	
Check for laboratory duplicate results (e.g., inorg. form VI)	NA
Check for Method Calibration and Run Documentation	
organic: instrument performance check	Y
initial calibration data	
continuing calibration data	
internal standard areas	
internal standard retention times	
sample clean-up documentation (org. forms V through X)	
metal: initial calibration data	
continuing calibration data	
method detection limits	
method linear range	
sample run sequence (inorg. forms II, IV, and VIII through XIV)	
other: initial calibration data	
continuing calibration data	
method detection limits	
sample run sequence	

6. Incorrect Information

Identify missing items or incorrect information (i.e., missing forms, unsigned forms, incorrect sample IDs, etc.)

Contact the laboratory or project personnel to obtain missing information or correct information

Document corrections below:

7. Nonconforming Items

Document all nonconforming items that can not be resolved above in a Non-Conformance Report (NCR), complete form, file, and follow-up

NCR # Item

Reviewed By: Joseph C Peters Date: 4/21/18

QA Review By: Per PM request, self QA review was performed Date: 4/21/18

LEIDOS
Laboratory Data Package Detail Form

Project: Stratton

SDG No: J107941

Analyte Group: Select VOCs

See attached

Field Sample ID	Lab ID #	Matrix	Analysis	Notes:

Comments:

Sample Summary

Client: Leidos, Inc.
Project/Site: Stratton ANGB, NY - Site 6

TestAmerica Job ID: 280-107941-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-107941-1	6MW2007	Water	03/28/18 09:00	03/30/18 08:50
280-107941-2	6MW2007D	Water	03/28/18 09:05	03/30/18 08:50
280-107941-3	6MW2207	Water	03/28/18 10:20	03/30/18 08:50
280-107941-4	6MW2307	Water	03/28/18 11:05	03/30/18 08:50
280-107941-5	6MW2407	Water	03/28/18 12:00	03/30/18 08:50
280-107941-6	6MW2507	Water	03/28/18 13:15	03/30/18 08:50
280-107941-7	6MW2607	Water	03/28/18 13:55	03/30/18 08:50
280-107941-8	TB08	Water	03/28/18 14:05	03/30/18 08:50
280-107941-9	FB04	Water	03/28/18 14:00	03/30/18 08:50

Select VOCs



LEIDOS
Organic Data Review Checklist

Project: Stratton

SDG No: J107941

Analysis: Select VOCs

Method: SW 8260C

Laboratory: TestAmerica

Matrix: Aqueous

The above data package has been reviewed and the analytical quality control/quality assurance performance data have been summarized. The general criteria used to assess the analytical integrityof the data were based on an examination of the following:

Case Narrative	Analytical Surrogate Recoveries
Analytical Holding Times	Internal Standard Performance
Sample Preservation	MS/MSD Recoveries and Differences
Method Calibration	LCS Recoveries
Method and Project Blanks	Re-analysis and Secondary Dilution

Project Specific QA/QC or contract requirements may take priority over validation criteria in this procedure.

Overall Remarks: DOD QSM 5.0 & QAPP guidance

Select VOCs that require validation are cis-1,2 Dichloroethene, Tetrachloroethene, Trichloroethene, and Vinyl chloride.

No data validation qualifiers due to QA outliers

Definition of Qualifiers:

"U", not detected at the associated level
"UJ", not detected and associated value estimated
"J", associated value estimated
"R", associated value unusable or analyte identity unfounded
"=", compound properly identified and value positive

Reviewed by: Joseph C Peters Date: 4/21/18

QA Reviewed by: Per PM request, self QA review was performed Date: 4/21/18

I. Case Narrative

Verify direct statements made within the Laboratory Case Narrative (note discrepancies).

Remarks: No discrepancies

II. Re-analysis and Secondary Dilutions

Verify that re-analysis and secondary dilutions were performed and reported as necessary. Determine appropriate results to report.

Remarks: No dilutions/re-analysis required

III. Holding Times

VOC - Waters - unpreserved: aromatic within 7 days, non-aromatic within 14 days of sample collection
VOC - Waters - preserved: aromatic and non-aromatic within 14 days of sample collection
VOC - Soils - preserve or analyze within 48 hours of sample collection; analyze within 14 days of preservation

SVOC, Pest., PCB - Waters - extract within 7 days of sample collection, analyze within 40 days of extraction
SVOC, Pest., PCB - Soils - extract within 14 days of sample collection, analyze within 40 days of extraction

Deviations: None

Sample #	VOC		SVOC			Pest/PCB		
	Date Collected	Date Analyzed	Date Collected	Date Extracted	Date Analyzed	Date Collected	Date Extracted	Date Analyzed

Actions:
1. If holding times are exceeded, all results are qualified as estimated (J/UJ)
2. If holding times are exceeded by more than 2X, reviewer may qualify non-detected results as unusable (R)

Remarks: _____

IV. System Monitoring Compounds (SMC) Recoveries (VOC, SVOC, Pesticides, PCBs)

List SMC compounds with unacceptable recoveries:

Note: SMC formerly known as surrogates.

Deviations: None

Sample #	VOC			SVOC B/N Compounds			SVOC Acid Compounds			Pest	PCB
	TOL	BFB	DCE	NBZ	FBP	TPH	PHL	2FP	TBP	TCX	DCB
QC Limits											

Actions:

1. If any SMC recovery is <10%, qualify all positive results in associated fractions as estimated (J)
2. If any SMC recovery is <10%, qualify all nondetects in associated fractions as unusable (R)
3. If SMC recoveries fall between 10% and the lower recovery limit, qualify results as estimated (J/UJ)
4. If SMC recoveries fall above the upper recovery limit, qualify positive results as estimated (J)
5. Use professional judgement to qualify Pest/PCB results when SMC recoveries are >10%
6. Use professional judgement to qualify results when SMC recoveries have been diluted out of spec.
7. For SVOC, qualification of the data is required only when 2 or more SMC per fraction are not within control limits

Remarks: _____

V. Internal Standards Performance (VOC, SVOC)

VOC internal standard area counts within -50% to +100% of standard (Y/N)
VOC internal standard retention times within ± 30 seconds of standard (Y/N)

SVOC internal standard area counts within -50% to +100% of standard (Y/N)
SVOC internal standard retention times within + 30 seconds of standard (Y/N)

Deviations: None

Sample #	IS Affected	Area Counts	Acceptable Range	RT	Std. RT Value

Actions:
1. If area counts are outside limits, qualify positive results associated with that IS as estimated (J)
2. Non-detected compounds quantitated using an IS area count >100% should not be qualified
3. Non-detected compounds quantitated using an IS area count <50%, qualify as estimated (UJ)
4. If extremely low area counts are reported (<50% of the lower limit), qualify non-detects as unusable (R)
5. If an IS retention time varies more than 30 seconds, review the chromatographic profile for shifts and irregularities. Use professional judgement to qualify the data estimated (J/UJ) or unusable (R)

Remarks: _____

VI. Blanks

All blanks were reported per matrix per concentration level for each 12 hour period on each GC/ MS system used to analyze VOCs and SVOCs Yes / No

Review associated laboratory and project blank samples. List documented contamination below:

Laboratory Method Blanks: No contamination in MB

Date:	Lab ID #	Fraction	Compound	Conc. (ppb)

Associated Project Blanks (e.g., equipment rinsates, trip blanks, etc.)

No contamination in field QC blanks

Date	Lab ID #	Fraction	Compound	Conc. (ppb)

Remarks:

VI. Blanks (continued)

Calculate action levels based on 10X the highest blank concentration of "common laboratory solvents", VOCs (methylene chloride, acetone, toluene, 2-butanone, cyclohexane) or SVOCs (phthalates), and 5X the highest blank concentration for all other VOC, SVOC, Pesticides, and PCB compounds. Sample weights, volumes, and dilution factors must be taken into account when applying the 5X and 10X criteria. This allows the total amount of contaminant present to be considered.

Deviations: None

Compound	Maximum Conc. Detected, (ppb)	Action Level (ppb)	Samples Affected

Actions:

1. If compound results exceed the action levels, the data are not qualified
2. If compound results are below the required reporting level, report results as non-detect (U) at the reporting level
3. If the compound is detected above the reporting level, but below the action level, qualify as not-detected (U)
4. If gross contamination exists in blanks (i.e.,, saturated peaks by GC/ MS), all affected compounds in the associated samles should be qualifed as unusable (R) due to interference.
5. If blanks were not analyzed per matrix per concentration level for each 12 hour period on each GC/MS system used to analyze VOCs and SVOCs use professional judgement to qualifty data. Data may be rejected (R).

Remarks: _____

VII. Initial & Contining Calibration (VOC, SVOC)

GC/MS instrument performance checks (BFB / DFTPP) Acceptable Y or N Y
All compounds must have and RRF > 0.01, %RSD < 30, and %D < 25 %RSD < 15, %D < 20

VOC - Date of initial calibration: 4/3/18 to 4/4/18
VOC - Date(s) of continuing calibration: 4/4/18
Was the 12 hour critieria met? Y or N Y

SVOC- Date of initial calibration:
SVOC - Date(s) of continuing calibration:
Was the 12 hour critieria met? Y or N

Deviations: None

Compound	Date	RRF	%RSD	%D	Samples Affected

Actions:

1. If any compound has an intial or continuing RRF of < 0.01, qualify positive results as estimated (J)
2. If any compound has an intial or continuing RRF of < 0.01, qualify non-detects as unusable (R)
3. If any compound has a %RSD >30 or a %D >25, qualify positive results as estimated (J)
4. If any compound has a %RSD >40 or a %D >40, qualify non-detects as estimated (UJ)
5. If BFB or DFTPP mass assignment / ION abundance criteria are all associated data as unusable (R).
6. If samples were analyzed outside the 12 hour BFB or DFTPP performance check time period, qualify the affected sample data as estimated (J/UJ).
7. If separate calibration for water and soil were not performed, use professional judgement to evaluate the data. Data may be rejected (R).
8. If calibrations were not completed within the 12 hour criterion, qualifty all associated data as estimated (J/UJ). If the 12 hour criterion was grossly exceeded, reject all associated data (R).

Remarks:

VIII. Initial & Continuing Calibration (Pesticides, PCBs)

Linearity evaluation, are %RSD <20? NA Yes or No

Is the RPD between calibration factors ≤25? Yes or No

Are multicomponent calibration data provided for each analysis date? Yes or No

Is the difference between columns check ≤ 25%D? Yes or No

Are 4, 4'- DDT and endrin breakdown (PEM) ≤ 20% and combined breakdown ≤ 30% Yes or No

Deviations:

Compound	%RSD	RPD	Samples Affected

Actions:

1. If %RSD criteria are not met, qualify positive results as estimated (J) and non-detects as estimated (UJ)
2. If RPD criteria are not met, qualify positive results as estimated (J) and non-detects as estimated (UJ)
3. If %D criteria is not met, qualify positive results as estimated (J) and non-detects as estimated (UJ)
4. If breadkwon criteria are not met, positive 4, 4'-DDT and endrin should be qualified as estimated (J). And non-detects should be rejected (R).

Remarks: _____

IX. Matrix Spike/Matrix Spike Duplicate Information

General MS/MSD Criteria:

	VOC	SVOC	Pest	PCB
percent recovery (%R)	70-130	45-135	40-140	40-140
relative percent difference (RPD)	<30	<50	<50	<50

Project Sample(s) Spiked: 6MW2007

Deviations: None

Compound	%R	%R Limits	RPD	RPD Limits	Samples Affected

Actions:

1. If the spike recovery is above the upper control limit (UCL), qualify all positive values in the unspiked sample as estimated (J) and non-detects as estimated (UJ).
2. If the spike recovery is below the lower control limit (LCL), qualifty positive values as estimated (J). And non-detects as estimated (UJ) in the unspiked sample.
3. If the spike recovery is <10%, qualify non-detect values as unusable (R)
4. If the RPD does not meet criteria, qualify positive values in the unspiked sample as estimated (J)
5. Use professional judgement to qualify additional samples in the analytical group based on MS/MSD results
6. Use professional judgement for qualification of data for unspiked compounds

Remarks:

X. Laboratory Control Sample Information

General LCS Criteria:
percent recovery (%R)

VOC	SVOC	Pest	PCB
80-120	60-120	50-130	50-130

Laboratory LCS Identifications: LCS 160-358977/4 LCS 160-358977/5

Deviations: None

Compound	Date	%R	Samples Affected/Qualifiers Applied

Actions:

Action should be based on both the number of compounds outside the criterion and the magnitude of the exceedance.

1. If the LCS recovery is below limits but > one- half the lower limit, qualify valves as estimated (J/UJ).
2. If the LCS recovery is < one-half the lower limit, qualify all data for that analyte as unusable (R).
3. If the LCS recovery is greater than the upper limit, qualify positive valves for that analyte as estimated (J).
4. If more than half the compounds in this LCS are not within recovery criteria, then qualify associated detected compounds as estimated (J).
5. Use professional judgement for qualification of data for compounds with no LCS information

Remarks:

Client Sample ID: 6MW2007

Date Collected: 03/28/18 09:00
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-1

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			04/04/18 18:06	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 18:06	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 18:06	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 18:06	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 18:06	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 18:06	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 18:06	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 18:06	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 18:06	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 18:06	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 18:06	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 18:06	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 18:06	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 18:06	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 18:06	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 18:06	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 18:06	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 18:06	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 18:06	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 18:06	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 18:06	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			04/04/18 18:06	1
Acetone	10	U	20	6.7	ug/L			04/04/18 18:06	1
Benzene	1.0	U	5.0	0.25	ug/L			04/04/18 18:06	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/04/18 18:06	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/04/18 18:06	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/04/18 18:06	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/04/18 18:06	1
Bromomethane	2.0	U	10	0.40	ug/L			04/04/18 18:06	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/04/18 18:06	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/04/18 18:06	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/04/18 18:06	1
Chloroethane	1.0	U	10	0.38	ug/L			04/04/18 18:06	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/04/18 18:06	1
Chloromethane	2.0	U	10	0.55	ug/L			04/04/18 18:06	1
cis-1,2-Dichloroethene	**0.80**	**J** J	5.0	0.16	ug/L			04/04/18 18:06	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/04/18 18:06	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/04/18 18:06	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/04/18 18:06	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			04/04/18 18:06	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/04/18 18:06	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/04/18 18:06	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/04/18 18:06	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/04/18 18:06	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/04/18 18:06	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/04/18 18:06	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/04/18 18:06	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/04/18 18:06	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/04/18 18:06	1

Client Sample ID: 6MW2007 — Lab Sample ID: 280-107941-1

Date Collected: 03/28/18 09:00 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 18:06	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 18:06	1
Styrene	1.0	U	5.0	0.35	ug/L			04/04/18 18:06	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 18:06	1
Tetrachloroethene	1.0	U U	5.0	0.28	ug/L			04/04/18 18:06	1
Toluene	1.0	U	5.0	1.0	ug/L			04/04/18 18:06	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/04/18 18:06	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/04/18 18:06	1
Trichloroethene	1.0	U U	5.0	0.29	ug/L			04/04/18 18:06	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/04/18 18:06	1
Vinyl chloride	1.0	U M U	5.0	0.43	ug/L			04/04/18 18:06	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/04/18 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*81 - 118*		*04/04/18 18:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*85 - 114*		*04/04/18 18:06*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 119*		*04/04/18 18:06*	*1*
Toluene-d8 (Surr)	*101*		*89 - 112*		*04/04/18 18:06*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.5**		1.0	0.16	mg/L			04/13/18 04:36	1

Client Sample ID: 6MW2007D — Lab Sample ID: 280-107941-2

Date Collected: 03/28/18 09:05 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 19:46	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 19:46	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 19:46	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 19:46	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 19:46	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 19:46	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 19:46	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 19:46	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 19:46	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 19:46	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 19:46	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 19:46	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 19:46	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 19:46	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 19:46	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 19:46	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 19:46	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 19:46	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 19:46	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 19:46	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 19:46	1

Client Sample ID: 6MW2007D

Date Collected: 03/28/18 09:05
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-2

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			04/04/18 19:46	1
Acetone	10	U		20	6.7	ug/L			04/04/18 19:46	1
Benzene	1.0	U		5.0	0.25	ug/L			04/04/18 19:46	1
Bromobenzene	2.0	U		5.0	0.33	ug/L			04/04/18 19:46	1
Bromochloromethane	2.0	U		5.0	0.55	ug/L			04/04/18 19:46	1
Bromodichloromethane	2.0	U		5.0	0.25	ug/L			04/04/18 19:46	1
Bromoform	1.0	U		5.0	0.37	ug/L			04/04/18 19:46	1
Bromomethane	2.0	U		10	0.40	ug/L			04/04/18 19:46	1
Carbon disulfide	1.0	U		5.0	0.37	ug/L			04/04/18 19:46	1
Carbon tetrachloride	1.0	U		5.0	0.36	ug/L			04/04/18 19:46	1
Chlorobenzene	1.0	U		5.0	0.38	ug/L			04/04/18 19:46	1
Chloroethane	1.0	U		10	0.38	ug/L			04/04/18 19:46	1
Chloroform	1.0	U		5.0	0.15	ug/L			04/04/18 19:46	1
Chloromethane	2.0	U		10	0.55	ug/L			04/04/18 19:46	1
cis-1,2-Dichloroethene	**0.70**	**J**	J	5.0	0.16	ug/L			04/04/18 19:46	1
cis-1,3-Dichloropropene	1.0	U		5.0	0.34	ug/L			04/04/18 19:46	1
Dibromochloromethane	1.0	U		5.0	0.33	ug/L			04/04/18 19:46	1
Dibromomethane	2.0	U		5.0	0.41	ug/L			04/04/18 19:46	1
Dichlorodifluoromethane	2.0	U		10	0.45	ug/L			04/04/18 19:46	1
Ethylbenzene	1.0	U		5.0	0.30	ug/L			04/04/18 19:46	1
Isopropylbenzene	2.0	U		5.0	0.26	ug/L			04/04/18 19:46	1
m,p-Xylenes	1.0	U		5.0	0.57	ug/L			04/04/18 19:46	1
Methyl tert-butyl ether	2.0	U		5.0	0.40	ug/L			04/04/18 19:46	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			04/04/18 19:46	1
Naphthalene	2.0	U		5.0	0.85	ug/L			04/04/18 19:46	1
n-Butylbenzene	2.0	U		5.0	0.23	ug/L			04/04/18 19:46	1
N-Propylbenzene	2.0	U		5.0	0.30	ug/L			04/04/18 19:46	1
o-Xylene	1.0	U		5.0	0.32	ug/L			04/04/18 19:46	1
p-Isopropyltoluene	2.0	U		5.0	0.32	ug/L			04/04/18 19:46	1
sec-Butylbenzene	2.0	U		5.0	0.31	ug/L			04/04/18 19:46	1
Styrene	1.0	U		5.0	0.35	ug/L			04/04/18 19:46	1
tert-Butylbenzene	2.0	U		5.0	0.31	ug/L			04/04/18 19:46	1
Tetrachloroethene	1.0	U	U	5.0	0.28	ug/L			04/04/18 19:46	1
Toluene	1.0	U		5.0	1.0	ug/L			04/04/18 19:46	1
trans-1,2-Dichloroethene	1.0	U		5.0	0.18	ug/L			04/04/18 19:46	1
trans-1,3-Dichloropropene	1.0	U		5.0	0.35	ug/L			04/04/18 19:46	1
Trichloroethene	1.0	U	U	5.0	0.29	ug/L			04/04/18 19:46	1
Trichlorofluoromethane	2.0	U		5.0	0.22	ug/L			04/04/18 19:46	1
Vinyl chloride	1.0	U M	U	5.0	0.43	ug/L			04/04/18 19:46	1
Xylenes (total)	5.0	U		10	0.85	ug/L			04/04/18 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*81 - 118*		*04/04/18 19:46*	*1*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*		*04/04/18 19:46*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*04/04/18 19:46*	*1*
Toluene-d8 (Surr)	*99*		*89 - 112*		*04/04/18 19:46*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.5**		1.0	0.16	mg/L			04/13/18 05:34	1

Client Sample ID: 6MW2207

Date Collected: 03/28/18 10:20
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-3

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			04/04/18 20:11	1
1,1,1-Trichloroethane	1.0	U		5.0	0.29	ug/L			04/04/18 20:11	1
1,1,2,2-Tetrachloroethane	2.0	U		5.0	0.43	ug/L			04/04/18 20:11	1
1,1,2-Trichloroethane	1.0	U		5.0	0.57	ug/L			04/04/18 20:11	1
1,1-Dichloroethane	1.0	U		5.0	0.39	ug/L			04/04/18 20:11	1
1,1-Dichloroethene	1.0	U		5.0	0.37	ug/L			04/04/18 20:11	1
1,1-Dichloropropene	1.0	U		5.0	0.30	ug/L			04/04/18 20:11	1
1,2,3-Trichlorobenzene	2.0	U		5.0	0.65	ug/L			04/04/18 20:11	1
1,2,3-Trichloropropane	1.0	U		5.0	0.56	ug/L			04/04/18 20:11	1
1,2,4-Trimethylbenzene	2.0	U		5.0	0.40	ug/L			04/04/18 20:11	1
1,2-Dibromo-3-Chloropropane	2.0	U		10	1.2	ug/L			04/04/18 20:11	1
1,2-Dibromoethane	2.0	U		5.0	0.44	ug/L			04/04/18 20:11	1
1,2-Dichloroethane	1.0	U		5.0	0.37	ug/L			04/04/18 20:11	1
1,2-Dichloropropane	1.0	U		5.0	0.32	ug/L			04/04/18 20:11	1
1,3,5-Trimethylbenzene	2.0	U		5.0	0.28	ug/L			04/04/18 20:11	1
1,3-Dichloropropane	1.0	U		5.0	0.24	ug/L			04/04/18 20:11	1
2,2-Dichloropropane	2.0	U		5.0	0.54	ug/L			04/04/18 20:11	1
2-Butanone (MEK)	5.0	U		20	0.39	ug/L			04/04/18 20:11	1
2-Chlorotoluene	2.0	U		5.0	0.34	ug/L			04/04/18 20:11	1
2-Hexanone	2.0	U		20	0.59	ug/L			04/04/18 20:11	1
4-Chlorotoluene	2.0	U		5.0	0.31	ug/L			04/04/18 20:11	1
4-Methyl-2-pentanone (MIBK)	2.0	U		20	0.33	ug/L			04/04/18 20:11	1
Acetone	**7.8**	**J**		20	6.7	ug/L			04/04/18 20:11	1
Benzene	1.0	U		5.0	0.25	ug/L			04/04/18 20:11	1
Bromobenzene	2.0	U		5.0	0.33	ug/L			04/04/18 20:11	1
Bromochloromethane	2.0	U		5.0	0.55	ug/L			04/04/18 20:11	1
Bromodichloromethane	2.0	U		5.0	0.25	ug/L			04/04/18 20:11	1
Bromoform	1.0	U		5.0	0.37	ug/L			04/04/18 20:11	1
Bromomethane	2.0	U		10	0.40	ug/L			04/04/18 20:11	1
Carbon disulfide	1.0	U		5.0	0.37	ug/L			04/04/18 20:11	1
Carbon tetrachloride	1.0	U		5.0	0.36	ug/L			04/04/18 20:11	1
Chlorobenzene	1.0	U		5.0	0.38	ug/L			04/04/18 20:11	1
Chloroethane	1.0	U		10	0.38	ug/L			04/04/18 20:11	1
Chloroform	1.0	U		5.0	0.15	ug/L			04/04/18 20:11	1
Chloromethane	2.0	U		10	0.55	ug/L			04/04/18 20:11	1
cis-1,2-Dichloroethene	**0.81**	**J**	J	5.0	0.16	ug/L			04/04/18 20:11	1
cis-1,3-Dichloropropene	1.0	U		5.0	0.34	ug/L			04/04/18 20:11	1
Dibromochloromethane	1.0	U		5.0	0.33	ug/L			04/04/18 20:11	1
Dibromomethane	2.0	U		5.0	0.41	ug/L			04/04/18 20:11	1
Dichlorodifluoromethane	2.0	U		10	0.45	ug/L			04/04/18 20:11	1
Ethylbenzene	1.0	U		5.0	0.30	ug/L			04/04/18 20:11	1
Isopropylbenzene	2.0	U		5.0	0.26	ug/L			04/04/18 20:11	1
m,p-Xylenes	1.0	U		5.0	0.57	ug/L			04/04/18 20:11	1
Methyl tert-butyl ether	2.0	U		5.0	0.40	ug/L			04/04/18 20:11	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			04/04/18 20:11	1
Naphthalene	2.0	U		5.0	0.85	ug/L			04/04/18 20:11	1
n-Butylbenzene	2.0	U		5.0	0.23	ug/L			04/04/18 20:11	1
N-Propylbenzene	2.0	U		5.0	0.30	ug/L			04/04/18 20:11	1
o-Xylene	1.0	U		5.0	0.32	ug/L			04/04/18 20:11	1

Client Sample ID: 6MW2207 — Lab Sample ID: 280-107941-3

Date Collected: 03/28/18 10:20 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 20:11	1
sec-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 20:11	1
Styrene	1.0	U	5.0	0.35	ug/L			04/04/18 20:11	1
tert-Butylbenzene	2.0	U	5.0	0.31	ug/L			04/04/18 20:11	1
Tetrachloroethene	**1.5**	**J** J	5.0	0.28	ug/L			04/04/18 20:11	1
Toluene	1.0	U	5.0	1.0	ug/L			04/04/18 20:11	1
trans-1,2-Dichloroethene	1.0	U	5.0	0.18	ug/L			04/04/18 20:11	1
trans-1,3-Dichloropropene	1.0	U	5.0	0.35	ug/L			04/04/18 20:11	1
Trichloroethene	**0.41**	**J** J	5.0	0.29	ug/L			04/04/18 20:11	1
Trichlorofluoromethane	2.0	U	5.0	0.22	ug/L			04/04/18 20:11	1
Vinyl chloride	1.0	U M U	5.0	0.43	ug/L			04/04/18 20:11	1
Xylenes (total)	5.0	U	10	0.85	ug/L			04/04/18 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*81 - 118*		*04/04/18 20:11*	*1*
4-Bromofluorobenzene (Surr)	*95*		*85 - 114*		*04/04/18 20:11*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*04/04/18 20:11*	*1*
Toluene-d8 (Surr)	*95*		*89 - 112*		*04/04/18 20:11*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**31**		1.0	0.16	mg/L			04/13/18 06:31	1

Client Sample ID: 6MW2307 — Lab Sample ID: 280-107941-4

Date Collected: 03/28/18 11:05 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 20:36	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 20:36	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 20:36	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 20:36	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 20:36	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 20:36	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 20:36	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 20:36	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 20:36	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 20:36	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 20:36	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 20:36	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 20:36	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 20:36	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 20:36	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 20:36	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 20:36	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 20:36	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 20:36	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 20:36	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 20:36	1

Client Sample ID: 6MW2307

Date Collected: 03/28/18 11:05
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-4

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			04/04/18 20:36	1
Acetone	10	U		20	6.7	ug/L			04/04/18 20:36	1
Benzene	1.0	U		5.0	0.25	ug/L			04/04/18 20:36	1
Bromobenzene	2.0	U		5.0	0.33	ug/L			04/04/18 20:36	1
Bromochloromethane	2.0	U		5.0	0.55	ug/L			04/04/18 20:36	1
Bromodichloromethane	2.0	U		5.0	0.25	ug/L			04/04/18 20:36	1
Bromoform	1.0	U		5.0	0.37	ug/L			04/04/18 20:36	1
Bromomethane	2.0	U		10	0.40	ug/L			04/04/18 20:36	1
Carbon disulfide	1.0	U		5.0	0.37	ug/L			04/04/18 20:36	1
Carbon tetrachloride	1.0	U		5.0	0.36	ug/L			04/04/18 20:36	1
Chlorobenzene	1.0	U		5.0	0.38	ug/L			04/04/18 20:36	1
Chloroethane	1.0	U		10	0.38	ug/L			04/04/18 20:36	1
Chloroform	1.0	U		5.0	0.15	ug/L			04/04/18 20:36	1
Chloromethane	2.0	U		10	0.55	ug/L			04/04/18 20:36	1
cis-1,2-Dichloroethene	**1.3**	**J**	J	5.0	0.16	ug/L			04/04/18 20:36	1
cis-1,3-Dichloropropene	1.0	U		5.0	0.34	ug/L			04/04/18 20:36	1
Dibromochloromethane	1.0	U		5.0	0.33	ug/L			04/04/18 20:36	1
Dibromomethane	2.0	U		5.0	0.41	ug/L			04/04/18 20:36	1
Dichlorodifluoromethane	2.0	U		10	0.45	ug/L			04/04/18 20:36	1
Ethylbenzene	1.0	U		5.0	0.30	ug/L			04/04/18 20:36	1
Isopropylbenzene	2.0	U		5.0	0.26	ug/L			04/04/18 20:36	1
m,p-Xylenes	1.0	U		5.0	0.57	ug/L			04/04/18 20:36	1
Methyl tert-butyl ether	2.0	U		5.0	0.40	ug/L			04/04/18 20:36	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			04/04/18 20:36	1
Naphthalene	2.0	U		5.0	0.85	ug/L			04/04/18 20:36	1
n-Butylbenzene	2.0	U		5.0	0.23	ug/L			04/04/18 20:36	1
N-Propylbenzene	2.0	U		5.0	0.30	ug/L			04/04/18 20:36	1
o-Xylene	1.0	U		5.0	0.32	ug/L			04/04/18 20:36	1
p-Isopropyltoluene	2.0	U		5.0	0.32	ug/L			04/04/18 20:36	1
sec-Butylbenzene	2.0	U		5.0	0.31	ug/L			04/04/18 20:36	1
Styrene	1.0	U		5.0	0.35	ug/L			04/04/18 20:36	1
tert-Butylbenzene	2.0	U		5.0	0.31	ug/L			04/04/18 20:36	1
Tetrachloroethene	**0.80**	**J**	J	5.0	0.28	ug/L			04/04/18 20:36	1
Toluene	1.0	U		5.0	1.0	ug/L			04/04/18 20:36	1
trans-1,2-Dichloroethene	1.0	U		5.0	0.18	ug/L			04/04/18 20:36	1
trans-1,3-Dichloropropene	1.0	U		5.0	0.35	ug/L			04/04/18 20:36	1
Trichloroethene	**0.78**	**J**	J	5.0	0.29	ug/L			04/04/18 20:36	1
Trichlorofluoromethane	2.0	U		5.0	0.22	ug/L			04/04/18 20:36	1
Vinyl chloride	**0.54**	**J**	J	5.0	0.43	ug/L			04/04/18 20:36	1
Xylenes (total)	5.0	U		10	0.85	ug/L			04/04/18 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*81 - 118*		*04/04/18 20:36*	*1*
4-Bromofluorobenzene (Surr)	*103*		*85 - 114*		*04/04/18 20:36*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 119*		*04/04/18 20:36*	*1*
Toluene-d8 (Surr)	*100*		*89 - 112*		*04/04/18 20:36*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.1**		1.0	0.16	mg/L			04/13/18 06:51	1

Client Sample ID: 6MW2407

Date Collected: 03/28/18 12:00
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-5

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			04/04/18 21:01	1
1,1,1-Trichloroethane	1.0	U		5.0	0.29	ug/L			04/04/18 21:01	1
1,1,2,2-Tetrachloroethane	2.0	U		5.0	0.43	ug/L			04/04/18 21:01	1
1,1,2-Trichloroethane	1.0	U		5.0	0.57	ug/L			04/04/18 21:01	1
1,1-Dichloroethane	1.0	U		5.0	0.39	ug/L			04/04/18 21:01	1
1,1-Dichloroethene	1.0	U		5.0	0.37	ug/L			04/04/18 21:01	1
1,1-Dichloropropene	1.0	U		5.0	0.30	ug/L			04/04/18 21:01	1
1,2,3-Trichlorobenzene	2.0	U		5.0	0.65	ug/L			04/04/18 21:01	1
1,2,3-Trichloropropane	1.0	U		5.0	0.56	ug/L			04/04/18 21:01	1
1,2,4-Trimethylbenzene	2.0	U		5.0	0.40	ug/L			04/04/18 21:01	1
1,2-Dibromo-3-Chloropropane	2.0	U		10	1.2	ug/L			04/04/18 21:01	1
1,2-Dibromoethane	2.0	U		5.0	0.44	ug/L			04/04/18 21:01	1
1,2-Dichloroethane	1.0	U		5.0	0.37	ug/L			04/04/18 21:01	1
1,2-Dichloropropane	1.0	U		5.0	0.32	ug/L			04/04/18 21:01	1
1,3,5-Trimethylbenzene	2.0	U		5.0	0.28	ug/L			04/04/18 21:01	1
1,3-Dichloropropane	1.0	U		5.0	0.24	ug/L			04/04/18 21:01	1
2,2-Dichloropropane	2.0	U		5.0	0.54	ug/L			04/04/18 21:01	1
2-Butanone (MEK)	5.0	U		20	0.39	ug/L			04/04/18 21:01	1
2-Chlorotoluene	2.0	U		5.0	0.34	ug/L			04/04/18 21:01	1
2-Hexanone	2.0	U		20	0.59	ug/L			04/04/18 21:01	1
4-Chlorotoluene	2.0	U		5.0	0.31	ug/L			04/04/18 21:01	1
4-Methyl-2-pentanone (MIBK)	2.0	U		20	0.33	ug/L			04/04/18 21:01	1
Acetone	10	U		20	6.7	ug/L			04/04/18 21:01	1
Benzene	1.0	U		5.0	0.25	ug/L			04/04/18 21:01	1
Bromobenzene	2.0	U		5.0	0.33	ug/L			04/04/18 21:01	1
Bromochloromethane	2.0	U		5.0	0.55	ug/L			04/04/18 21:01	1
Bromodichloromethane	2.0	U		5.0	0.25	ug/L			04/04/18 21:01	1
Bromoform	1.0	U		5.0	0.37	ug/L			04/04/18 21:01	1
Bromomethane	2.0	U		10	0.40	ug/L			04/04/18 21:01	1
Carbon disulfide	1.0	U		5.0	0.37	ug/L			04/04/18 21:01	1
Carbon tetrachloride	1.0	U		5.0	0.36	ug/L			04/04/18 21:01	1
Chlorobenzene	1.0	U		5.0	0.38	ug/L			04/04/18 21:01	1
Chloroethane	1.0	U		10	0.38	ug/L			04/04/18 21:01	1
Chloroform	1.0	U		5.0	0.15	ug/L			04/04/18 21:01	1
Chloromethane	2.0	U		10	0.55	ug/L			04/04/18 21:01	1
cis-1,2-Dichloroethene	**2.2**	**J**	J	5.0	0.16	ug/L			04/04/18 21:01	1
cis-1,3-Dichloropropene	1.0	U		5.0	0.34	ug/L			04/04/18 21:01	1
Dibromochloromethane	1.0	U		5.0	0.33	ug/L			04/04/18 21:01	1
Dibromomethane	2.0	U		5.0	0.41	ug/L			04/04/18 21:01	1
Dichlorodifluoromethane	2.0	U		10	0.45	ug/L			04/04/18 21:01	1
Ethylbenzene	1.0	U		5.0	0.30	ug/L			04/04/18 21:01	1
Isopropylbenzene	2.0	U		5.0	0.26	ug/L			04/04/18 21:01	1
m,p-Xylenes	1.0	U		5.0	0.57	ug/L			04/04/18 21:01	1
Methyl tert-butyl ether	2.0	U		5.0	0.40	ug/L			04/04/18 21:01	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			04/04/18 21:01	1
Naphthalene	2.0	U		5.0	0.85	ug/L			04/04/18 21:01	1
n-Butylbenzene	2.0	U		5.0	0.23	ug/L			04/04/18 21:01	1
N-Propylbenzene	2.0	U		5.0	0.30	ug/L			04/04/18 21:01	1
o-Xylene	1.0	U		5.0	0.32	ug/L			04/04/18 21:01	1

Client Sample ID: 6MW2407 — Lab Sample ID: 280-107941-5

Date Collected: 03/28/18 12:00 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 21:01	1
sec-Butylbenzene	2.0	U		5.0	0.31	ug/L			04/04/18 21:01	1
Styrene	1.0	U		5.0	0.35	ug/L			04/04/18 21:01	1
tert-Butylbenzene	2.0	U		5.0	0.31	ug/L			04/04/18 21:01	1
Tetrachloroethene	1.0	U	U	5.0	0.28	ug/L			04/04/18 21:01	1
Toluene	1.0	U		5.0	1.0	ug/L			04/04/18 21:01	1
trans-1,2-Dichloroethene	1.0	U		5.0	0.18	ug/L			04/04/18 21:01	1
trans-1,3-Dichloropropene	1.0	U		5.0	0.35	ug/L			04/04/18 21:01	1
Trichloroethene	**6.3**		=	5.0	0.29	ug/L			04/04/18 21:01	1
Trichlorofluoromethane	2.0	U		5.0	0.22	ug/L			04/04/18 21:01	1
Vinyl chloride	1.0	U	U	5.0	0.43	ug/L			04/04/18 21:01	1
Xylenes (total)	5.0	U		10	0.85	ug/L			04/04/18 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*81 - 118*		*04/04/18 21:01*	*1*
4-Bromofluorobenzene (Surr)	*102*		*85 - 114*		*04/04/18 21:01*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 119*		*04/04/18 21:01*	*1*
Toluene-d8 (Surr)	*102*		*89 - 112*		*04/04/18 21:01*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**4.1**		1.0	0.16	mg/L			04/13/18 07:09	1

Client Sample ID: 6MW2507 — Lab Sample ID: 280-107941-6

Date Collected: 03/28/18 13:15 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 21:26	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 21:26	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 21:26	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 21:26	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 21:26	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 21:26	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 21:26	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 21:26	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 21:26	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 21:26	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 21:26	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 21:26	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 21:26	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 21:26	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 21:26	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 21:26	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 21:26	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 21:26	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 21:26	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 21:26	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 21:26	1

Client Sample ID: 6MW2507

Date Collected: 03/28/18 13:15
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-6

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			04/04/18 21:26	1
Acetone	10	U		20	6.7	ug/L			04/04/18 21:26	1
Benzene	1.0	U		5.0	0.25	ug/L			04/04/18 21:26	1
Bromobenzene	2.0	U		5.0	0.33	ug/L			04/04/18 21:26	1
Bromochloromethane	2.0	U		5.0	0.55	ug/L			04/04/18 21:26	1
Bromodichloromethane	2.0	U		5.0	0.25	ug/L			04/04/18 21:26	1
Bromoform	1.0	U		5.0	0.37	ug/L			04/04/18 21:26	1
Bromomethane	2.0	U		10	0.40	ug/L			04/04/18 21:26	1
Carbon disulfide	1.0	U		5.0	0.37	ug/L			04/04/18 21:26	1
Carbon tetrachloride	1.0	U		5.0	0.36	ug/L			04/04/18 21:26	1
Chlorobenzene	1.0	U		5.0	0.38	ug/L			04/04/18 21:26	1
Chloroethane	1.0	U		10	0.38	ug/L			04/04/18 21:26	1
Chloroform	1.0	U		5.0	0.15	ug/L			04/04/18 21:26	1
Chloromethane	2.0	U		10	0.55	ug/L			04/04/18 21:26	1
cis-1,2-Dichloroethene	**3.8**	**J**	J	5.0	0.16	ug/L			04/04/18 21:26	1
cis-1,3-Dichloropropene	1.0	U		5.0	0.34	ug/L			04/04/18 21:26	1
Dibromochloromethane	1.0	U		5.0	0.33	ug/L			04/04/18 21:26	1
Dibromomethane	2.0	U		5.0	0.41	ug/L			04/04/18 21:26	1
Dichlorodifluoromethane	2.0	U		10	0.45	ug/L			04/04/18 21:26	1
Ethylbenzene	1.0	U		5.0	0.30	ug/L			04/04/18 21:26	1
Isopropylbenzene	2.0	U		5.0	0.26	ug/L			04/04/18 21:26	1
m,p-Xylenes	1.0	U		5.0	0.57	ug/L			04/04/18 21:26	1
Methyl tert-butyl ether	2.0	U		5.0	0.40	ug/L			04/04/18 21:26	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			04/04/18 21:26	1
Naphthalene	2.0	U		5.0	0.85	ug/L			04/04/18 21:26	1
n-Butylbenzene	2.0	U		5.0	0.23	ug/L			04/04/18 21:26	1
N-Propylbenzene	2.0	U		5.0	0.30	ug/L			04/04/18 21:26	1
o-Xylene	1.0	U		5.0	0.32	ug/L			04/04/18 21:26	1
p-Isopropyltoluene	2.0	U		5.0	0.32	ug/L			04/04/18 21:26	1
sec-Butylbenzene	2.0	U		5.0	0.31	ug/L			04/04/18 21:26	1
Styrene	1.0	U		5.0	0.35	ug/L			04/04/18 21:26	1
tert-Butylbenzene	2.0	U		5.0	0.31	ug/L			04/04/18 21:26	1
Tetrachloroethene	1.0	U	U	5.0	0.28	ug/L			04/04/18 21:26	1
Toluene	1.0	U		5.0	1.0	ug/L			04/04/18 21:26	1
trans-1,2-Dichloroethene	1.0	U		5.0	0.18	ug/L			04/04/18 21:26	1
trans-1,3-Dichloropropene	1.0	U		5.0	0.35	ug/L			04/04/18 21:26	1
Trichloroethene	**1.2**	**J**	J	5.0	0.29	ug/L			04/04/18 21:26	1
Trichlorofluoromethane	2.0	U		5.0	0.22	ug/L			04/04/18 21:26	1
Vinyl chloride	**15**		=	5.0	0.43	ug/L			04/04/18 21:26	1
Xylenes (total)	5.0	U		10	0.85	ug/L			04/04/18 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*81 - 118*		*04/04/18 21:26*	*1*
4-Bromofluorobenzene (Surr)	*96*		*85 - 114*		*04/04/18 21:26*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 119*		*04/04/18 21:26*	*1*
Toluene-d8 (Surr)	*99*		*89 - 112*		*04/04/18 21:26*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**6.5**		1.0	0.16	mg/L			04/13/18 07:28	1

Client Sample ID: 6MW2607

Date Collected: 03/28/18 13:55
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-7

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			04/04/18 21:51	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 21:51	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 21:51	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 21:51	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 21:51	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 21:51	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 21:51	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 21:51	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 21:51	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 21:51	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 21:51	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 21:51	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 21:51	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 21:51	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 21:51	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 21:51	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 21:51	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 21:51	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 21:51	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 21:51	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 21:51	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			04/04/18 21:51	1
Acetone	10	U	20	6.7	ug/L			04/04/18 21:51	1
Benzene	1.0	U	5.0	0.25	ug/L			04/04/18 21:51	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/04/18 21:51	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/04/18 21:51	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/04/18 21:51	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/04/18 21:51	1
Bromomethane	2.0	U	10	0.40	ug/L			04/04/18 21:51	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/04/18 21:51	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/04/18 21:51	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/04/18 21:51	1
Chloroethane	1.0	U	10	0.38	ug/L			04/04/18 21:51	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/04/18 21:51	1
Chloromethane	2.0	U	10	0.55	ug/L			04/04/18 21:51	1
cis-1,2-Dichloroethene	**1.0**	**J** J	5.0	0.16	ug/L			04/04/18 21:51	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/04/18 21:51	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/04/18 21:51	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/04/18 21:51	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			04/04/18 21:51	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/04/18 21:51	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/04/18 21:51	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/04/18 21:51	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/04/18 21:51	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/04/18 21:51	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/04/18 21:51	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/04/18 21:51	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/04/18 21:51	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/04/18 21:51	1

Client Sample ID: 6MW2607 — Lab Sample ID: 280-107941-7

Date Collected: 03/28/18 13:55 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 21:51	1
sec-Butylbenzene	2.0	U		5.0	0.31	ug/L			04/04/18 21:51	1
Styrene	1.0	U		5.0	0.35	ug/L			04/04/18 21:51	1
tert-Butylbenzene	2.0	U		5.0	0.31	ug/L			04/04/18 21:51	1
Tetrachloroethene	1.0	U	U	5.0	0.28	ug/L			04/04/18 21:51	1
Toluene	1.0	U		5.0	1.0	ug/L			04/04/18 21:51	1
trans-1,2-Dichloroethene	1.0	U		5.0	0.18	ug/L			04/04/18 21:51	1
trans-1,3-Dichloropropene	1.0	U		5.0	0.35	ug/L			04/04/18 21:51	1
Trichloroethene	1.0	U	U	5.0	0.29	ug/L			04/04/18 21:51	1
Trichlorofluoromethane	2.0	U		5.0	0.22	ug/L			04/04/18 21:51	1
Vinyl chloride	**0.43**	**J M**	J	5.0	0.43	ug/L			04/04/18 21:51	1
Xylenes (total)	5.0	U		10	0.85	ug/L			04/04/18 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*81 - 118*		*04/04/18 21:51*	*1*
4-Bromofluorobenzene (Surr)	*98*		*85 - 114*		*04/04/18 21:51*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*04/04/18 21:51*	*1*
Toluene-d8 (Surr)	*96*		*89 - 112*		*04/04/18 21:51*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**3.4**		1.0	0.16	mg/L			04/13/18 07:47	1

Client Sample ID: TB08 — Lab Sample ID: 280-107941-8

Date Collected: 03/28/18 14:05 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 17:16	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 17:16	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 17:16	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 17:16	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 17:16	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 17:16	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 17:16	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 17:16	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 17:16	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 17:16	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 17:16	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 17:16	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 17:16	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 17:16	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 17:16	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 17:16	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 17:16	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 17:16	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 17:16	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 17:16	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 17:16	1

Client Sample ID: TB08

Date Collected: 03/28/18 14:05
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-8

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			04/04/18 17:16	1
Acetone	10	U		20	6.7	ug/L			04/04/18 17:16	1
Benzene	1.0	U		5.0	0.25	ug/L			04/04/18 17:16	1
Bromobenzene	2.0	U		5.0	0.33	ug/L			04/04/18 17:16	1
Bromochloromethane	2.0	U		5.0	0.55	ug/L			04/04/18 17:16	1
Bromodichloromethane	2.0	U		5.0	0.25	ug/L			04/04/18 17:16	1
Bromoform	1.0	U		5.0	0.37	ug/L			04/04/18 17:16	1
Bromomethane	2.0	U		10	0.40	ug/L			04/04/18 17:16	1
Carbon disulfide	1.0	U		5.0	0.37	ug/L			04/04/18 17:16	1
Carbon tetrachloride	1.0	U		5.0	0.36	ug/L			04/04/18 17:16	1
Chlorobenzene	1.0	U		5.0	0.38	ug/L			04/04/18 17:16	1
Chloroethane	1.0	U		10	0.38	ug/L			04/04/18 17:16	1
Chloroform	1.0	U		5.0	0.15	ug/L			04/04/18 17:16	1
Chloromethane	2.0	U		10	0.55	ug/L			04/04/18 17:16	1
cis-1,2-Dichloroethene	1.0	U	U	5.0	0.16	ug/L			04/04/18 17:16	1
cis-1,3-Dichloropropene	1.0	U		5.0	0.34	ug/L			04/04/18 17:16	1
Dibromochloromethane	1.0	U		5.0	0.33	ug/L			04/04/18 17:16	1
Dibromomethane	2.0	U		5.0	0.41	ug/L			04/04/18 17:16	1
Dichlorodifluoromethane	2.0	U		10	0.45	ug/L			04/04/18 17:16	1
Ethylbenzene	1.0	U		5.0	0.30	ug/L			04/04/18 17:16	1
Isopropylbenzene	2.0	U		5.0	0.26	ug/L			04/04/18 17:16	1
m,p-Xylenes	1.0	U		5.0	0.57	ug/L			04/04/18 17:16	1
Methyl tert-butyl ether	2.0	U		5.0	0.40	ug/L			04/04/18 17:16	1
Methylene Chloride	5.0	U		7.5	1.7	ug/L			04/04/18 17:16	1
Naphthalene	2.0	U		5.0	0.85	ug/L			04/04/18 17:16	1
n-Butylbenzene	2.0	U		5.0	0.23	ug/L			04/04/18 17:16	1
N-Propylbenzene	2.0	U		5.0	0.30	ug/L			04/04/18 17:16	1
o-Xylene	1.0	U		5.0	0.32	ug/L			04/04/18 17:16	1
p-Isopropyltoluene	2.0	U		5.0	0.32	ug/L			04/04/18 17:16	1
sec-Butylbenzene	2.0	U		5.0	0.31	ug/L			04/04/18 17:16	1
Styrene	1.0	U		5.0	0.35	ug/L			04/04/18 17:16	1
tert-Butylbenzene	2.0	U		5.0	0.31	ug/L			04/04/18 17:16	1
Tetrachloroethene	1.0	U	U	5.0	0.28	ug/L			04/04/18 17:16	1
Toluene	1.0	U		5.0	1.0	ug/L			04/04/18 17:16	1
trans-1,2-Dichloroethene	1.0	U		5.0	0.18	ug/L			04/04/18 17:16	1
trans-1,3-Dichloropropene	1.0	U		5.0	0.35	ug/L			04/04/18 17:16	1
Trichloroethene	1.0	U	U	5.0	0.29	ug/L			04/04/18 17:16	1
Trichlorofluoromethane	2.0	U		5.0	0.22	ug/L			04/04/18 17:16	1
Vinyl chloride	1.0	U	U	5.0	0.43	ug/L			04/04/18 17:16	1
Xylenes (total)	5.0	U		10	0.85	ug/L			04/04/18 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*81 - 118*		*04/04/18 17:16*	*1*
4-Bromofluorobenzene (Surr)	*98*		*85 - 114*		*04/04/18 17:16*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 119*		*04/04/18 17:16*	*1*
Toluene-d8 (Surr)	*98*		*89 - 112*		*04/04/18 17:16*	*1*

Client Sample ID: FB04
Date Collected: 03/28/18 14:00
Date Received: 03/30/18 08:50

Lab Sample ID: 280-107941-9
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			04/04/18 17:41	1
1,1,1-Trichloroethane	1.0	U	5.0	0.29	ug/L			04/04/18 17:41	1
1,1,2,2-Tetrachloroethane	2.0	U	5.0	0.43	ug/L			04/04/18 17:41	1
1,1,2-Trichloroethane	1.0	U	5.0	0.57	ug/L			04/04/18 17:41	1
1,1-Dichloroethane	1.0	U	5.0	0.39	ug/L			04/04/18 17:41	1
1,1-Dichloroethene	1.0	U	5.0	0.37	ug/L			04/04/18 17:41	1
1,1-Dichloropropene	1.0	U	5.0	0.30	ug/L			04/04/18 17:41	1
1,2,3-Trichlorobenzene	2.0	U	5.0	0.65	ug/L			04/04/18 17:41	1
1,2,3-Trichloropropane	1.0	U	5.0	0.56	ug/L			04/04/18 17:41	1
1,2,4-Trimethylbenzene	2.0	U	5.0	0.40	ug/L			04/04/18 17:41	1
1,2-Dibromo-3-Chloropropane	2.0	U	10	1.2	ug/L			04/04/18 17:41	1
1,2-Dibromoethane	2.0	U	5.0	0.44	ug/L			04/04/18 17:41	1
1,2-Dichloroethane	1.0	U	5.0	0.37	ug/L			04/04/18 17:41	1
1,2-Dichloropropane	1.0	U	5.0	0.32	ug/L			04/04/18 17:41	1
1,3,5-Trimethylbenzene	2.0	U	5.0	0.28	ug/L			04/04/18 17:41	1
1,3-Dichloropropane	1.0	U	5.0	0.24	ug/L			04/04/18 17:41	1
2,2-Dichloropropane	2.0	U	5.0	0.54	ug/L			04/04/18 17:41	1
2-Butanone (MEK)	5.0	U	20	0.39	ug/L			04/04/18 17:41	1
2-Chlorotoluene	2.0	U	5.0	0.34	ug/L			04/04/18 17:41	1
2-Hexanone	2.0	U	20	0.59	ug/L			04/04/18 17:41	1
4-Chlorotoluene	2.0	U	5.0	0.31	ug/L			04/04/18 17:41	1
4-Methyl-2-pentanone (MIBK)	2.0	U	20	0.33	ug/L			04/04/18 17:41	1
Acetone	10	U	20	6.7	ug/L			04/04/18 17:41	1
Benzene	1.0	U	5.0	0.25	ug/L			04/04/18 17:41	1
Bromobenzene	2.0	U	5.0	0.33	ug/L			04/04/18 17:41	1
Bromochloromethane	2.0	U	5.0	0.55	ug/L			04/04/18 17:41	1
Bromodichloromethane	2.0	U	5.0	0.25	ug/L			04/04/18 17:41	1
Bromoform	1.0	U	5.0	0.37	ug/L			04/04/18 17:41	1
Bromomethane	2.0	U	10	0.40	ug/L			04/04/18 17:41	1
Carbon disulfide	1.0	U	5.0	0.37	ug/L			04/04/18 17:41	1
Carbon tetrachloride	1.0	U	5.0	0.36	ug/L			04/04/18 17:41	1
Chlorobenzene	1.0	U	5.0	0.38	ug/L			04/04/18 17:41	1
Chloroethane	1.0	U	10	0.38	ug/L			04/04/18 17:41	1
Chloroform	1.0	U	5.0	0.15	ug/L			04/04/18 17:41	1
Chloromethane	2.0	U	10	0.55	ug/L			04/04/18 17:41	1
cis-1,2-Dichloroethene	1.0	U U	5.0	0.16	ug/L			04/04/18 17:41	1
cis-1,3-Dichloropropene	1.0	U	5.0	0.34	ug/L			04/04/18 17:41	1
Dibromochloromethane	1.0	U	5.0	0.33	ug/L			04/04/18 17:41	1
Dibromomethane	2.0	U	5.0	0.41	ug/L			04/04/18 17:41	1
Dichlorodifluoromethane	2.0	U	10	0.45	ug/L			04/04/18 17:41	1
Ethylbenzene	1.0	U	5.0	0.30	ug/L			04/04/18 17:41	1
Isopropylbenzene	2.0	U	5.0	0.26	ug/L			04/04/18 17:41	1
m,p-Xylenes	1.0	U	5.0	0.57	ug/L			04/04/18 17:41	1
Methyl tert-butyl ether	2.0	U	5.0	0.40	ug/L			04/04/18 17:41	1
Methylene Chloride	5.0	U	7.5	1.7	ug/L			04/04/18 17:41	1
Naphthalene	2.0	U	5.0	0.85	ug/L			04/04/18 17:41	1
n-Butylbenzene	2.0	U	5.0	0.23	ug/L			04/04/18 17:41	1
N-Propylbenzene	2.0	U	5.0	0.30	ug/L			04/04/18 17:41	1
o-Xylene	1.0	U	5.0	0.32	ug/L			04/04/18 17:41	1

Client Sample ID: FB04 — Lab Sample ID: 280-107941-9

Date Collected: 03/28/18 14:00 — **Matrix: Water**
Date Received: 03/30/18 08:50

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			04/04/18 17:41	1
sec-Butylbenzene	2.0	U		5.0	0.31	ug/L			04/04/18 17:41	1
Styrene	1.0	U		5.0	0.35	ug/L			04/04/18 17:41	1
tert-Butylbenzene	2.0	U		5.0	0.31	ug/L			04/04/18 17:41	1
Tetrachloroethene	1.0	U	U	5.0	0.28	ug/L			04/04/18 17:41	1
Toluene	1.0	U		5.0	1.0	ug/L			04/04/18 17:41	1
trans-1,2-Dichloroethene	1.0	U		5.0	0.18	ug/L			04/04/18 17:41	1
trans-1,3-Dichloropropene	1.0	U		5.0	0.35	ug/L			04/04/18 17:41	1
Trichloroethene	1.0	U	U	5.0	0.29	ug/L			04/04/18 17:41	1
Trichlorofluoromethane	2.0	U		5.0	0.22	ug/L			04/04/18 17:41	1
Vinyl chloride	1.0	U	U	5.0	0.43	ug/L			04/04/18 17:41	1
Xylenes (total)	5.0	U		10	0.85	ug/L			04/04/18 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*81 - 118*		*04/04/18 17:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*85 - 114*		*04/04/18 17:41*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 119*		*04/04/18 17:41*	*1*
Toluene-d8 (Surr)	*100*		*89 - 112*		*04/04/18 17:41*	*1*

General Chemistry

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Quad	**0.36**	**J**	1.0	0.16	mg/L			04/13/18 08:06	1